



ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

The Chemours Company FC, LLC
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

Report Date: August 27, 2018 09:12

Project: CWK - SC SPB WELL SAMPLING

Account #: 07032
Group Number: 1973450
PO Number: LBIO-67047
State of Sample Origin: NJ

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

To view our laboratory's current scopes of accreditation please go to <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>. Historical copies may be requested through your project manager.



SAMPLE INFORMATION

<u>Client Sample Description</u>	<u>Sample Collection</u>	<u>ELLE#</u>
	<u>Date/Time</u>	
SPBGW2H18-H05-M02B Groundwater	08/06/2018 10:36	9739846
SPBGW2H18-I05-M03B Groundwater	08/06/2018 09:44	9739847
SPBGW2H18-F05-M03B Groundwater	08/06/2018 11:31	9739848
SPBGW2H18-G04-M02B Groundwater	08/06/2018 12:24	9739849
SPBGW2H18-H04-M02B Groundwater	08/06/2018 13:12	9739850
SPBGW2H18-H04-M02B MS Groundwater	08/06/2018 13:12	9739851
SPBGW2H18-H04-M02B MSD Groundwater	08/06/2018 13:12	9739852
SPBGW2H18-J04-M01B Groundwater	08/06/2018 11:48	9739853
SPBGW2H18-I05-M03B-D Groundwater	08/06/2018 09:44	9739854
SPBGW2H18-EB-20 Groundwater	08/06/2018 08:00	9739855
SPBGW2H18-TB-20 Blank Water	08/06/2018 08:00	9739856

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.



DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name: Eurofins Lancaster Laboratories Environmental

Client: The Chemours Company FC, LLC

Project: CWK - SC SPB WELL SAMPLING

Sampling Date(s): 08/06/18

Laboratory Sample ID(s): 9739846-9739856

List DKQP Methods Used (e.g., 8260, 8270, et cetera)

RSKSOP-175 modified; SW-846 8260C; SW-846 8260C SIM; SW-846 8270D

		Yes or No
1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	Yes
1A	Were the method specified handling, preservation, and holding time requirements met?	No
1B	EPH Method: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes
3	Were samples received at an appropriate temperature (</=6° C)?	Yes
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	No
5A	Were reporting limits* specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	Yes
5B	Were these reporting limits met?	No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	No
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	Yes

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Data of Known Quality."

*The Limit of Quantitation (LOQ) meets requirements for the Reporting Limit (RL) as defined in the NJDEP Data of Known Quality performance standards, unless otherwise noted.



08/27/2018

Project Name: CWK - SC SPB WELL SAMPLING
ELLE Group #: 1973450

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below.

Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set.

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:**SW-846 8260C, GC/MS Volatiles**

Sample #s: 9739846, 9739847, 9739848, 9739849, 9739850, 9739851, 9739852, 9739853, 9739854, 9739855, 9739856

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane

SW-846 8270D, GC/MS Semivolatiles

Sample #s: 9739849, 9739851, 9739852

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. Sufficient sample was not available to repeat the analysis.

Sample #s: 9739846, 9739847, 9739848, 9739850, 9739853, 9739854, 9739855

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

Batch #: 18219WAF026 (Sample number(s): 9739846-9739848, 9739850-9739855 UNSPK: 9739850)

The recovery(ies) for the following analyte(s) in the LCS were below the acceptance window:
1-Naphthylamine, 2-Naphthylamine, o-Toluidine, Hexachlorobutadiene, Benzidine

The recovery(ies) for the following analyte(s) in the MS and/or MSD were below the acceptance window:
4-Aminobiphenyl, 1-Naphthylamine, 2-Naphthylamine, o-Toluidine, 4-Chloroaniline, 3-Nitroaniline, 2,4-Dimethylphenol, Hexachlorobutadiene, Benzidine, 3,3'-Dichlorobenzidine, 2-Methylphenol,

2,2'-oxybis(1-Chloropropane), Dimethylphthalate, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside acceptance windows: Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene, 2,2'-oxybis(1-Chloropropane)

Batch #: 18223WAZ026 (Sample number(s): 9739849)

The recovery(ies) for the following analyte(s) in the LCS were below the acceptance window:
4-Aminobiphenyl, 1-Naphthylamine, 2-Naphthylamine, o-Toluidine, 4-Chloroaniline, Benzidine

RSKSOP-175 modified, GC Miscellaneous

Sample #s: 9739854

The container used for the testing had headspace at the time of the Methane analysis.

Sample Description: SPBGW2H18-H05-M02B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739846
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 10:36

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Volatiles	SW-846 8260C	ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	6 U	6	20	1
11997	Benzene	71-43-2	0.5 U	0.5	1	1
11997	Bromodichloromethane	75-27-4	0.5 U	0.5	1	1
11997	Bromoform	75-25-2	0.5 U	0.5	4	1
11997	Bromomethane	74-83-9	0.5 U	0.5	1	1
11997	2-Butanone	78-93-3	3 U	3	10	1
11997	Carbon Disulfide	75-15-0	1 U	1	5	1
11997	Carbon Tetrachloride	56-23-5	0.5 U	0.5	1	1
11997	Chlorobenzene	108-90-7	50	0.5	1	1
11997	Chloroethane	75-00-3	0.5 U	0.5	1	1
11997	Chloroform	67-66-3	0.5 U	0.5	1	1
11997	Chloromethane	74-87-3	0.5 U	0.5	1	1
11997	Cyclohexane	110-82-7	2 U	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	2 U	2	5	1
11997	Dibromochloromethane	124-48-1	0.5 U	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	0.5 U	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	1 U	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	1 U	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	1 J	1	5	1
11997	Dichlorodifluoromethane	75-71-8	0.5 U	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	0.5 U	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	0.5 U	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	0.5 U	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	0.5 U	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	0.5 U	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	0.5 U	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	0.5 U	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	0.5 U	0.5	1	1
11997	Ethylbenzene	100-41-4	0.5 U	0.5	1	1
11997	Freon 113	76-13-1	2 U	2	10	1
11997	2-Hexanone	591-78-6	3 U	3	10	1
11997	Isopropylbenzene	98-82-8	1 U	1	5	1
11997	Methyl Acetate	79-20-9	1 U	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	0.5 U	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	3 U	3	10	1
11997	Methylcyclohexane	108-87-2	1 U	1	5	1
11997	Methylene Chloride	75-09-2	0.5 U	0.5	1	1
11997	Styrene	100-42-5	1 U	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	0.5 U	0.5	1	1
11997	Tetrachloroethene	127-18-4	0.5 U	0.5	1	1
11997	Toluene	108-88-3	0.5 U	0.5	1	1
11997	1,2,4-Trichlorobenzene	120-82-1	1 U	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-H05-M02B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739846
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 10:36

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	0.5 U	0.5	1	1
11997	Trichloroethene	79-01-6	0.5 U	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	0.5 U	0.5	1	1
11997	Vinyl Chloride	75-01-4	0.5 U	0.5	1	1
11997	m+p-Xylene	179601-23-1	0.5 U	0.5	1	1
11997	o-Xylene	95-47-6	0.5 U	0.5	1	1
11997	Xylene (Total)	1330-20-7	0.5 U	0.5	1	1

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane

GC/MS Volatiles	SW-846 8260C SIM		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.2 U	0.2	0.4	1

GC/MS Semivolatiles	SW-846 8270D		ug/l	ug/l	ug/l	
14241	Acenaphthene	83-32-9	3	0.1	0.5	1
14241	Acenaphthylene	208-96-8	0.1 U	0.1	0.5	1
14241	Acetophenone	98-86-2	4 U	4	10	1
14241	4-Aminobiphenyl	92-67-1	5 U	5	11	1
14241	Aniline	62-53-3	3 U	3	10	1
14241	Anthracene	120-12-7	0.1 U	0.1	0.5	1
14241	Atrazine	1912-24-9	2 U	2	5	1
14241	Benzaldehyde	100-52-7	3 U	3	10	1
14241	Benzidine	92-87-5	21 U	21	62	1
14241	Benzo(a)anthracene	56-55-3	0.1 U	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	0.1 U	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	3 U	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	2 U	2	5	1
14241	Di-n-butylphthalate	84-74-2	2 U	2	5	1
14241	Caprolactam	105-60-2	5 U	5	11	1
14241	Carbazole	86-74-8	0.5 U	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	0.5 U	0.5	2	1
14241	4-Chloroaniline	106-47-8	4 U	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14241	2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-H05-M02B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739846
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 10:36

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	2-Chlorophenol	95-57-8	0.5 U	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14241	2,2'-oxybis(1-Chloropropane) Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.	108-60-1	0.5 U	0.5	2	1
14241	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14241	Dibenzofuran	132-64-9	0.5 U	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	3 U	3	10	1
14241	2,4-Dichlorophenol	120-83-2	0.5 U	0.5	2	1
14241	Diethylphthalate	84-66-2	2 U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3 U	3	10	1
14241	Dimethylphthalate	131-11-3	2 U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	8 U	8	22	1
14241	2,4-Dinitrophenol	51-28-5	14 U	14	31	1
14241	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14241	Diphenyl ether	101-84-8	0.6 J	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	11	1
14241	Fluoranthene	206-44-0	0.1 U	0.1	0.5	1
14241	Fluorene	86-73-7	0.1 U	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5 U	5	11	1
14241	Hexachloroethane	67-72-1	1 U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1
14241	Isophorone	78-59-1	0.5 U	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	0.1 U	0.1	0.5	1
14241	2-Methylphenol	95-48-7	0.5 U	0.5	2	1
14241	4-Methylphenol	106-44-5	0.5 U	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	0.2 J	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	20 J	8	22	1
14241	2-Naphthylamine	91-59-8	7 U	7	22	1
14241	2-Nitroaniline	88-74-4	2 U	2	7	1
14241	3-Nitroaniline	99-09-2	3 U	3	7	1
14241	4-Nitroaniline	100-01-6	0.9 U	0.9	3	1
14241	Nitrobenzene	98-95-3	0.5 U	0.5	2	1
14241	2-Nitrophenol	88-75-5	3 U	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-H05-M02B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739846
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 10:36

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	4-Nitrophenol	100-02-7	10 U	10	31	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	1 J	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	0.1 U	0.1	0.5	1
14241	Phenol	108-95-2	0.5 U	0.5	2	1
14241	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14241	o-Toluidine	95-53-4	4 U	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	0.5 U	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

The project QA/QC requirements were not met.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

11659 Targeted Library Search (SVOC)

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined at the end of the report.

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l
10602	Ethane	74-84-0	1.0 U	1.0
10602	Ethene	74-85-1	1.0 U	1.0
10602	Methane	74-82-8	5,200	150

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182272AA	08/16/2018 02:28	Kevin D Kelly	1
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182232AA	08/11/2018 17:46	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182232AA	08/11/2018 17:46	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	2	W182272AA	08/16/2018 02:28	Kevin D Kelly	1
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18219WAF026	08/13/2018 03:02	Ashley R Transue	1

*=This limit was used in the evaluation of the final result

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Sample Description: SPBGW2H18-H05-M02B Groundwater
SC SPB WELL SAMPLING 2H18**The Chemours Company FC, LLC**
ELLE Sample #: WW 9739846
ELLE Group #: 1973450
Matrix: Groundwater**Project Name:** CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 10:36

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11010	8270D BNA Extraction	SW-846 3510C	1	18219WAF026	08/07/2018 10:00	Logan M Brosemer	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182200004A	08/08/2018 13:57	Johanna C Kennedy	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182200004A	08/13/2018 17:57	Johanna C Kennedy	50

*=This limit was used in the evaluation of the final result

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

! _____ !
! SC-01 !

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 9739846
Sample wt/vol: 242 (g/mL) mL Lab File ID: lh0917.d
Level: (low/med) LOW Date Received: 08/06/18
% Moisture: Decanted: (Y/N) Date Extracted: 08/07/18
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/13/18
Injection Volume: 1 (uL) Dilution Factor: 1
GPC Cleanup: N pH: Extraction: Sepf

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.95-51-2	o-Chloroaniline	8.225	1	J
2.90-41-5	[1,1'-Biphenyl]-2-amine		0	
3.				
4.SVOCTIC	Total SVOC TICs		1	J
5.				
6.				
7.				
8.				
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FORM I SV-1

Sample Description: SPBGW2H18-I05-M03B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739847
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 09:44

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Volatiles	SW-846 8260C	ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	8 J	6	20	1
11997	Benzene	71-43-2	4	0.5	1	1
11997	Bromodichloromethane	75-27-4	0.5 U	0.5	1	1
11997	Bromoform	75-25-2	0.5 U	0.5	4	1
11997	Bromomethane	74-83-9	0.5 U	0.5	1	1
11997	2-Butanone	78-93-3	3 U	3	10	1
11997	Carbon Disulfide	75-15-0	7	1	5	1
11997	Carbon Tetrachloride	56-23-5	0.5 U	0.5	1	1
11997	Chlorobenzene	108-90-7	160	0.5	1	1
11997	Chloroethane	75-00-3	4	0.5	1	1
11997	Chloroform	67-66-3	0.5 U	0.5	1	1
11997	Chloromethane	74-87-3	0.5 U	0.5	1	1
11997	Cyclohexane	110-82-7	2 U	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	2 U	2	5	1
11997	Dibromochloromethane	124-48-1	0.5 U	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	0.5 U	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	21	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	1 U	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	12	1	5	1
11997	Dichlorodifluoromethane	75-71-8	0.5 U	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	17	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	0.5 U	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	0.5 U	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	1	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	0.5 U	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	0.5 U	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	0.5 U	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	0.5 U	0.5	1	1
11997	Ethylbenzene	100-41-4	13	0.5	1	1
11997	Freon 113	76-13-1	2 U	2	10	1
11997	2-Hexanone	591-78-6	3 U	3	10	1
11997	Isopropylbenzene	98-82-8	1 J	1	5	1
11997	Methyl Acetate	79-20-9	1 U	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	0.5 U	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	3 U	3	10	1
11997	Methylcyclohexane	108-87-2	1 U	1	5	1
11997	Methylene Chloride	75-09-2	0.5 U	0.5	1	1
11997	Styrene	100-42-5	1 U	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	0.5 U	0.5	1	1
11997	Tetrachloroethene	127-18-4	0.5 U	0.5	1	1
11997	Toluene	108-88-3	2	0.5	1	1
11997	1,2,4-Trichlorobenzene	120-82-1	1 U	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-I05-M03B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739847
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 09:44

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Volatiles	SW-846 8260C	ug/l	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	0.5 U	0.5	1	1
11997	Trichloroethene	79-01-6	3	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	0.5 U	0.5	1	1
11997	Vinyl Chloride	75-01-4	0.5 U	0.5	1	1
11997	m+p-Xylene	179601-23-1	4	0.5	1	1
11997	o-Xylene	95-47-6	21	0.5	1	1
11997	Xylene (Total)	1330-20-7	24	0.5	1	1

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane

GC/MS Volatiles	SW-846 8260C SIM	ug/l	ug/l	ug/l	
00527 1,4-Dioxane	123-91-1	0.8	0.2	0.4	1

GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241 Acenaphthene	83-32-9	7	0.1	0.5	1
14241 Acenaphthylene	208-96-8	0.1 U	0.1	0.5	1
14241 Acetophenone	98-86-2	4 U	4	10	1
14241 4-Aminobiphenyl	92-67-1	5 U	5	11	1
14241 Aniline	62-53-3	5 J	3	10	1
14241 Anthracene	120-12-7	0.1 U	0.1	0.5	1
14241 Atrazine	1912-24-9	2 U	2	5	1
14241 Benzaldehyde	100-52-7	3 U	3	10	1
14241 Benzidine	92-87-5	20 U	20	61	1
14241 Benzo(a)anthracene	56-55-3	0.1 U	0.1	0.5	1
14241 Benzo(a)pyrene	50-32-8	0.1 U	0.1	0.5	1
14241 Benzo(b)fluoranthene	205-99-2	0.1 U	0.1	0.5	1
14241 Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1	0.5	1
14241 Benzo(k)fluoranthene	207-08-9	0.1 U	0.1	0.5	1
14241 1,1'-Biphenyl	92-52-4	3 U	3	10	1
14241 4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5	2	1
14241 Butylbenzylphthalate	85-68-7	2 U	2	5	1
14241 Di-n-butylphthalate	84-74-2	2 U	2	5	1
14241 Caprolactam	105-60-2	5 U	5	11	1
14241 Carbazole	86-74-8	0.5 U	0.5	2	1
14241 4-Chloro-3-methylphenol	59-50-7	0.5 U	0.5	2	1
14241 4-Chloroaniline	106-47-8	4 U	4	10	1
14241 bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14241 bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14241 2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-I05-M03B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739847
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 09:44

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	2-Chlorophenol	95-57-8	0.5 U	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14241	2,2'-oxybis(1-Chloropropane)	108-60-1	0.9 J	0.5	2	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14241	Dibenzofuran	132-64-9	0.5 U	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	3 U	3	10	1
14241	2,4-Dichlorophenol	120-83-2	0.5 U	0.5	2	1
14241	Diethylphthalate	84-66-2	2 U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3 U	3	10	1
14241	Dimethylphthalate	131-11-3	2 U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	8 U	8	21	1
14241	2,4-Dinitrophenol	51-28-5	14 U	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14241	Diphenyl ether	101-84-8	93	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	11	1
14241	Fluoranthene	206-44-0	0.1 U	0.1	0.5	1
14241	Fluorene	86-73-7	0.1 U	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5 U	5	11	1
14241	Hexachloroethane	67-72-1	1 U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1
14241	Isophorone	78-59-1	0.5 U	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	0.1 U	0.1	0.5	1
14241	2-Methylphenol	95-48-7	0.5 U	0.5	2	1
14241	4-Methylphenol	106-44-5	1 J	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	0.8	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	13 J	8	21	1
14241	2-Naphthylamine	91-59-8	7 U	7	21	1
14241	2-Nitroaniline	88-74-4	2 U	2	7	1
14241	3-Nitroaniline	99-09-2	3 U	3	7	1
14241	4-Nitroaniline	100-01-6	0.9 U	0.9	3	1
14241	Nitrobenzene	98-95-3	0.5 U	0.5	2	1
14241	2-Nitrophenol	88-75-5	3 U	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-I05-M03B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739847
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 09:44

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	4-Nitrophenol	100-02-7	10 U	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	0.7 U	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	0.1 U	0.1	0.5	1
14241	Phenol	108-95-2	2 J	0.5	2	1
14241	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14241	o-Toluidine	95-53-4	4 U	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	0.5 U	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

The project QA/QC requirements were not met.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

11659 Targeted Library Search (SVOC)

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined at the end of the report.

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l
10602	Ethane	74-84-0	1.0 U	1.0
10602	Ethene	74-85-1	1.7 J	1.0
10602	Methane	74-82-8	1,700	30

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182272AA	08/16/2018 02:52	Kevin D Kelly	1
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182232AA	08/11/2018 18:07	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182232AA	08/11/2018 18:07	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	2	W182272AA	08/16/2018 02:52	Kevin D Kelly	1
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18219WAF026	08/13/2018 03:31	Ashley R Transue	1

*=This limit was used in the evaluation of the final result

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Sample Description: SPBGW2H18-I05-M03B Groundwater
SC SPB WELL SAMPLING 2H18**The Chemours Company FC, LLC**
ELLE Sample #: WW 9739847
ELLE Group #: 1973450
Matrix: Groundwater**Project Name:** CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 09:44

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11010	8270D BNA Extraction	SW-846 3510C	1	18219WAF026	08/07/2018 10:00	Logan M Brosemer	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182200004A	08/08/2018 14:29	Johanna C Kennedy	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182200004A	08/13/2018 18:14	Johanna C Kennedy	10

*=This limit was used in the evaluation of the final result

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

! _____ !
! SC-02 !

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 9739847
Sample wt/vol: 247 (g/mL) mL Lab File ID: lh0918.d
Level: (low/med) LOW Date Received: 08/06/18
% Moisture: Decanted: (Y/N) Date Extracted: 08/07/18
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/13/18
Injection Volume: 1 (uL) Dilution Factor: 1
GPC Cleanup: N pH: Extraction: Sepf

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.95-51-2	!o-Chloroaniline	8.231	2	J
2.90-41-5	![1,1'-Biphenyl]-2-amine	0	0	
3.	!			
4.SVOCTIC	!Total SVOC TICs		2	J
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Sample Description: SPBGW2H18-F05-M03B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739848
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 11:31

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	7 J	6	20	1
11997	Benzene	71-43-2	0.5 U	0.5	1	1
11997	Bromodichloromethane	75-27-4	0.5 U	0.5	1	1
11997	Bromoform	75-25-2	0.5 U	0.5	4	1
11997	Bromomethane	74-83-9	0.5 U	0.5	1	1
11997	2-Butanone	78-93-3	3 U	3	10	1
11997	Carbon Disulfide	75-15-0	1 U	1	5	1
11997	Carbon Tetrachloride	56-23-5	0.5 U	0.5	1	1
11997	Chlorobenzene	108-90-7	0.5 U	0.5	1	1
11997	Chloroethane	75-00-3	0.5 U	0.5	1	1
11997	Chloroform	67-66-3	0.5 U	0.5	1	1
11997	Chloromethane	74-87-3	0.5 U	0.5	1	1
11997	Cyclohexane	110-82-7	2 U	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	2 U	2	5	1
11997	Dibromochloromethane	124-48-1	0.5 U	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	0.5 U	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	1 U	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	1 U	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	1 U	1	5	1
11997	Dichlorodifluoromethane	75-71-8	0.5 U	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	0.5 U	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	0.5 U	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	0.5 U	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	0.5 U	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	0.5 U	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	0.5 U	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	0.5 U	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	0.5 U	0.5	1	1
11997	Ethylbenzene	100-41-4	0.5 U	0.5	1	1
11997	Freon 113	76-13-1	2 U	2	10	1
11997	2-Hexanone	591-78-6	3 U	3	10	1
11997	Isopropylbenzene	98-82-8	1 U	1	5	1
11997	Methyl Acetate	79-20-9	1 U	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	0.5 U	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	3 U	3	10	1
11997	Methylcyclohexane	108-87-2	1 U	1	5	1
11997	Methylene Chloride	75-09-2	0.5 U	0.5	1	1
11997	Styrene	100-42-5	1 U	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	0.5 U	0.5	1	1
11997	Tetrachloroethene	127-18-4	0.5 U	0.5	1	1
11997	Toluene	108-88-3	0.5 U	0.5	1	1
11997	1,2,4-Trichlorobenzene	120-82-1	1 U	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-F05-M03B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739848
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 11:31

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	0.5 U	0.5	1	1
11997	Trichloroethene	79-01-6	0.5 U	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	0.5 U	0.5	1	1
11997	Vinyl Chloride	75-01-4	0.5 U	0.5	1	1
11997	m+p-Xylene	179601-23-1	0.5 U	0.5	1	1
11997	o-Xylene	95-47-6	0.5 U	0.5	1	1
11997	Xylene (Total)	1330-20-7	0.5 U	0.5	1	1

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane

GC/MS Volatiles	SW-846 8260C SIM		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.2 U	0.2	0.4	1

GC/MS Semivolatiles	SW-846 8270D		ug/l	ug/l	ug/l	
14241	Acenaphthene	83-32-9	0.1 U	0.1	0.5	1
14241	Acenaphthylene	208-96-8	0.1 U	0.1	0.5	1
14241	Acetophenone	98-86-2	4 U	4	10	1
14241	4-Aminobiphenyl	92-67-1	5 U	5	11	1
14241	Aniline	62-53-3	3 U	3	10	1
14241	Anthracene	120-12-7	0.1 U	0.1	0.5	1
14241	Atrazine	1912-24-9	2 U	2	5	1
14241	Benzaldehyde	100-52-7	3 U	3	10	1
14241	Benzidine	92-87-5	20 U	20	60	1
14241	Benzo(a)anthracene	56-55-3	0.1 U	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	0.1 U	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	3 U	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	2 U	2	5	1
14241	Di-n-butylphthalate	84-74-2	2 U	2	5	1
14241	Caprolactam	105-60-2	5 U	5	11	1
14241	Carbazole	86-74-8	0.5 U	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	0.5 U	0.5	2	1
14241	4-Chloroaniline	106-47-8	4 U	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14241	2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-F05-M03B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739848
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 11:31

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	2-Chlorophenol	95-57-8	0.5 U	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14241	2,2'-oxybis(1-Chloropropane) Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.	108-60-1	0.5 U	0.5	2	1
14241	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14241	Dibenzofuran	132-64-9	0.5 U	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	3 U	3	10	1
14241	2,4-Dichlorophenol	120-83-2	0.5 U	0.5	2	1
14241	Diethylphthalate	84-66-2	2 U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3 U	3	10	1
14241	Dimethylphthalate	131-11-3	2 U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	8 U	8	21	1
14241	2,4-Dinitrophenol	51-28-5	14 U	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14241	Diphenyl ether	101-84-8	0.5 U	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	11	1
14241	Fluoranthene	206-44-0	0.1 U	0.1	0.5	1
14241	Fluorene	86-73-7	0.1 U	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5 U	5	11	1
14241	Hexachloroethane	67-72-1	1 U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1
14241	Isophorone	78-59-1	0.5 U	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	0.1 U	0.1	0.5	1
14241	2-Methylphenol	95-48-7	0.5 U	0.5	2	1
14241	4-Methylphenol	106-44-5	0.5 U	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	0.2 J	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	8 U	8	21	1
14241	2-Naphthylamine	91-59-8	7 U	7	21	1
14241	2-Nitroaniline	88-74-4	2 U	2	7	1
14241	3-Nitroaniline	99-09-2	3 U	3	7	1
14241	4-Nitroaniline	100-01-6	0.9 U	0.9	3	1
14241	Nitrobenzene	98-95-3	0.5 U	0.5	2	1
14241	2-Nitrophenol	88-75-5	3 U	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-F05-M03B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739848
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 11:31

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	4-Nitrophenol	100-02-7	10 U	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	0.7 U	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	0.1 U	0.1	0.5	1
14241	Phenol	108-95-2	0.5 U	0.5	2	1
14241	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14241	o-Toluidine	95-53-4	4 U	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	0.5 U	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

The project QA/QC requirements were not met.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

11659 Targeted Library Search (SVOC)

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined at the end of the report.

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l
10602	Ethane	74-84-0	1.0 U	1.0
10602	Ethene	74-85-1	2.0 J	1.0
10602	Methane	74-82-8	7,700	150

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182272AA	08/16/2018 03:17	Kevin D Kelly	1
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182232AA	08/11/2018 18:27	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182232AA	08/11/2018 18:27	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	2	W182272AA	08/16/2018 03:17	Kevin D Kelly	1
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18219WAF026	08/13/2018 03:59	Ashley R Transue	1

*=This limit was used in the evaluation of the final result

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Sample Description: SPBGW2H18-F05-M03B Groundwater
SC SPB WELL SAMPLING 2H18**The Chemours Company FC, LLC**
ELLE Sample #: WW 9739848
ELLE Group #: 1973450
Matrix: Groundwater**Project Name:** CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 11:31

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11010	8270D BNA Extraction	SW-846 3510C	1	18219WAF026	08/07/2018 10:00	Logan M Brosemer	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182200004A	08/08/2018 14:44	Johanna C Kennedy	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182200004A	08/13/2018 18:31	Johanna C Kennedy	50

*=This limit was used in the evaluation of the final result

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

! _____ !
! SC-03 !

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 9739848
Sample wt/vol: 248 (g/mL) mL Lab File ID: lh0919.d
Level: (low/med) LOW Date Received: 08/06/18
% Moisture: Decanted: (Y/N) Date Extracted: 08/07/18
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/13/18
Injection Volume: 1 (uL) Dilution Factor: 1
GPC Cleanup: N pH: Extraction: Sepf

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.95-51-2	!o-Chloroaniline		0	
2.90-41-5	![1,1'-Biphenyl]-2-amine		0	
3.	!			
4.SVOCTIC	!Total SVOC TICs		0	
5.	!			
6.	!			
7.	!			
8.	!			
9.	!			
10.	!			
11.	!			
12.	!			
13.	!			
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25.	!			
26.	!			
27.	!			
28.	!			
29.	!			
30.	!			

page 1 of 1

FORM I SV-1

Sample Description: SPBGW2H18-G04-M02B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739849
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 12:24

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Volatiles	SW-846 8260C	ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	6 U	6	20	1
11997	Benzene	71-43-2	0.5 U	0.5	1	1
11997	Bromodichloromethane	75-27-4	0.5 U	0.5	1	1
11997	Bromoform	75-25-2	0.5 U	0.5	4	1
11997	Bromomethane	74-83-9	0.5 U	0.5	1	1
11997	2-Butanone	78-93-3	3 U	3	10	1
11997	Carbon Disulfide	75-15-0	1 U	1	5	1
11997	Carbon Tetrachloride	56-23-5	0.5 U	0.5	1	1
11997	Chlorobenzene	108-90-7	16	0.5	1	1
11997	Chloroethane	75-00-3	0.5 U	0.5	1	1
11997	Chloroform	67-66-3	0.5 U	0.5	1	1
11997	Chloromethane	74-87-3	0.5 U	0.5	1	1
11997	Cyclohexane	110-82-7	2 U	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	2 U	2	5	1
11997	Dibromochloromethane	124-48-1	0.5 U	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	0.5 U	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	3 J	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	1 U	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	2 J	1	5	1
11997	Dichlorodifluoromethane	75-71-8	0.5 U	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	0.5 U	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	0.5 U	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	0.5 U	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	0.5 U	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	0.5 U	0.5	1	1
11997	1,2-Dichloropropene	78-87-5	0.5 U	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	0.5 U	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	0.5 U	0.5	1	1
11997	Ethylbenzene	100-41-4	0.5 U	0.5	1	1
11997	Freon 113	76-13-1	2 U	2	10	1
11997	2-Hexanone	591-78-6	3 U	3	10	1
11997	Isopropylbenzene	98-82-8	1 U	1	5	1
11997	Methyl Acetate	79-20-9	1 U	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	0.5 U	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	3 U	3	10	1
11997	Methylcyclohexane	108-87-2	1 U	1	5	1
11997	Methylene Chloride	75-09-2	0.5 U	0.5	1	1
11997	Styrene	100-42-5	1 U	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	0.5 U	0.5	1	1
11997	Tetrachloroethene	127-18-4	0.5 U	0.5	1	1
11997	Toluene	108-88-3	0.5 U	0.5	1	1
11997	1,2,4-Trichlorobenzene	120-82-1	1 U	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-G04-M02B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739849
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22
Collection Date/Time: 08/06/2018 12:24

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	0.5 U	0.5	1	1
11997	Trichloroethene	79-01-6	0.5 U	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	0.5 U	0.5	1	1
11997	Vinyl Chloride	75-01-4	0.5 U	0.5	1	1
11997	m+p-Xylene	179601-23-1	0.5 U	0.5	1	1
11997	o-Xylene	95-47-6	0.5 U	0.5	1	1
11997	Xylene (Total)	1330-20-7	0.5 U	0.5	1	1

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane

GC/MS Volatiles	SW-846 8260C SIM		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.2 U	0.2	0.4	1

GC/MS Semivolatiles	SW-846 8270D		ug/l	ug/l	ug/l	
14241	Acenaphthene	83-32-9	0.1 U	0.1	0.5	1
14241	Acenaphthylene	208-96-8	0.1 U	0.1	0.5	1
14241	Acetophenone	98-86-2	4 U	4	10	1
14241	4-Aminobiphenyl	92-67-1	5 UK3	5	11	1
14241	Aniline	62-53-3	3 U	3	10	1
14241	Anthracene	120-12-7	0.1 U	0.1	0.5	1
14241	Atrazine	1912-24-9	2 U	2	5	1
14241	Benzaldehyde	100-52-7	3 U	3	10	1
14241	Benzidine	92-87-5	20 U	20	60	1
14241	Benzo(a)anthracene	56-55-3	0.1 U	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	0.1 U	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	3 U	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	2 U	2	5	1
14241	Di-n-butylphthalate	84-74-2	2 U	2	5	1
14241	Caprolactam	105-60-2	5 U	5	11	1
14241	Carbazole	86-74-8	0.5 U	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	0.5 U	0.5	2	1
14241	4-Chloroaniline	106-47-8	4 U	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14241	2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-G04-M02B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739849
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 12:24

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/l		ug/l	ug/l	
14241	2-Chlorophenol	95-57-8	0.5	U	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5	U	0.5	2	1
14241	2,2'-oxybis(1-Chloropropane)	108-60-1	0.5	U	0.5	2	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.							
14241	Chrysene	218-01-9	0.1	U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1	U	0.1	0.5	1
14241	Dibenzofuran	132-64-9	0.5	U	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	3	U	3	10	1
14241	2,4-Dichlorophenol	120-83-2	0.5	U	0.5	2	1
14241	Diethylphthalate	84-66-2	2	U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3	U	3	10	1
14241	Dimethylphthalate	131-11-3	2	U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	8	U	8	21	1
14241	2,4-Dinitrophenol	51-28-5	14	U	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	1	U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5	U	0.5	2	1
14241	Diphenyl ether	101-84-8	0.5	U	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5	U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5	U	5	11	1
14241	Fluoranthene	206-44-0	0.1	U	0.1	0.5	1
14241	Fluorene	86-73-7	0.1	U	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	0.1	U	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	0.5	U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5	U	5	11	1
14241	Hexachloroethane	67-72-1	1	U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1	U	0.1	0.5	1
14241	Isophorone	78-59-1	0.5	U	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	0.1	U	0.1	0.5	1
14241	2-Methylphenol	95-48-7	0.5	U	0.5	2	1
14241	4-Methylphenol	106-44-5	0.5	U	0.5	2	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
14241	Naphthalene	91-20-3	0.1	U	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	8	U	8	21	1
14241	2-Naphthylamine	91-59-8	7	U	7	21	1
14241	2-Nitroaniline	88-74-4	2	U	2	7	1
14241	3-Nitroaniline	99-09-2	3	U	3	7	1
14241	4-Nitroaniline	100-01-6	0.9	U	0.9	3	1
14241	Nitrobenzene	98-95-3	0.5	U	0.5	2	1
14241	2-Nitrophenol	88-75-5	3	U	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-G04-M02B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739849
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 12:24

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	4-Nitrophenol	100-02-7	10 U	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	1 J	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	0.1 U	0.1	0.5	1
14241	Phenol	108-95-2	0.5 U	0.5	2	1
14241	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14241	o-Toluidine	95-53-4	4 U	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	0.5 U	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

The project QA/QC requirements were not met.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. Sufficient sample was not available to repeat the analysis.

11659 Targeted Library Search (SVOC)

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined at the end of the report.

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l
10602	Ethane	74-84-0	1.0 U	1.0
10602	Ethene	74-85-1	1.0 U	1.0
10602	Methane	74-82-8	39	3.0

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182272AA	08/16/2018 03:41	Kevin D Kelly	1
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182232AA	08/11/2018 19:08	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182232AA	08/11/2018 19:08	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	2	W182272AA	08/16/2018 03:41	Kevin D Kelly	1
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18223WAZ026	08/13/2018 23:17	Ashley R Transue	1
11010	8270D BNA Extraction	SW-846 3510C	1	18223WAZ026	08/13/2018 09:15	Joshua S Ruth	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182200004A	08/08/2018 15:00	Johanna C Kennedy	1

*=This limit was used in the evaluation of the final result

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

! _____ !
! SC-04 !

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 9739849
Sample wt/vol: 248 (g/mL) mL Lab File ID: dh1211.d
Level: (low/med) LOW Date Received: 08/06/18
% Moisture: Decanted: (Y/N) Date Extracted: 08/13/18
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/13/18
Injection Volume: 0.5 (uL) Dilution Factor: 1
GPC Cleanup: N pH: Extraction: Sepf

CONCENTRATION UNITS:

Number TICs found: 3 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.95-51-2	!o-chloroaniline		0	J
2.90-41-5	![1,1'-Biphenyl]-2-amine		0	J
3.	!			
4.SVOCTIC	!Total SVOC TICs		0	J
5.	!			
6.	!			
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page 1 of 1

FORM I SV-1

Sample Description: SPBGW2H18-H04-M02B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739850
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 13:12

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	6 U	6	20	1
11997	Benzene	71-43-2	0.5 U	0.5	1	1
11997	Bromodichloromethane	75-27-4	0.5 U	0.5	1	1
11997	Bromoform	75-25-2	0.5 U	0.5	4	1
11997	Bromomethane	74-83-9	0.5 U	0.5	1	1
11997	2-Butanone	78-93-3	3 U	3	10	1
11997	Carbon Disulfide	75-15-0	1 U	1	5	1
11997	Carbon Tetrachloride	56-23-5	0.5 U	0.5	1	1
11997	Chlorobenzene	108-90-7	0.5 U	0.5	1	1
11997	Chloroethane	75-00-3	0.5 U	0.5	1	1
11997	Chloroform	67-66-3	0.5 U	0.5	1	1
11997	Chloromethane	74-87-3	0.5 U	0.5	1	1
11997	Cyclohexane	110-82-7	2 U	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	2 U	2	5	1
11997	Dibromochloromethane	124-48-1	0.5 U	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	0.5 U	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	1 U	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	1 U	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	1 U	1	5	1
11997	Dichlorodifluoromethane	75-71-8	0.5 U	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	0.5 U	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	0.5 U	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	0.5 U	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	0.5 U	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	0.5 U	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	0.5 U	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	0.5 U	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	0.5 U	0.5	1	1
11997	Ethylbenzene	100-41-4	0.5 U	0.5	1	1
11997	Freon 113	76-13-1	2 U	2	10	1
11997	2-Hexanone	591-78-6	3 U	3	10	1
11997	Isopropylbenzene	98-82-8	1 U	1	5	1
11997	Methyl Acetate	79-20-9	1 U	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	0.5 U	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	3 U	3	10	1
11997	Methylcyclohexane	108-87-2	1 U	1	5	1
11997	Methylene Chloride	75-09-2	0.5 U	0.5	1	1
11997	Styrene	100-42-5	1 U	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	0.5 U	0.5	1	1
11997	Tetrachloroethene	127-18-4	0.5 U	0.5	1	1
11997	Toluene	108-88-3	0.5 U	0.5	1	1
11997	1,2,4-Trichlorobenzene	120-82-1	1 U	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-H04-M02B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739850
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 13:12

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	0.5 U	0.5	1	1
11997	Trichloroethene	79-01-6	0.5 U	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	0.5 U	0.5	1	1
11997	Vinyl Chloride	75-01-4	0.5 U	0.5	1	1
11997	m+p-Xylene	179601-23-1	0.5 U	0.5	1	1
11997	o-Xylene	95-47-6	0.5 U	0.5	1	1
11997	Xylene (Total)	1330-20-7	0.5 U	0.5	1	1

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane

GC/MS Volatiles	SW-846 8260C SIM		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.2 U	0.2	0.4	1

GC/MS Semivolatiles	SW-846 8270D		ug/l	ug/l	ug/l	
14241	Acenaphthene	83-32-9	0.1 U	0.1	0.5	1
14241	Acenaphthylene	208-96-8	0.1 U	0.1	0.5	1
14241	Acetophenone	98-86-2	4 U	4	10	1
14241	4-Aminobiphenyl	92-67-1	5 U	5	11	1
14241	Aniline	62-53-3	3 U	3	10	1
14241	Anthracene	120-12-7	0.1 U	0.1	0.5	1
14241	Atrazine	1912-24-9	2 U	2	5	1
14241	Benzaldehyde	100-52-7	3 U	3	10	1
14241	Benzidine	92-87-5	21 U	21	62	1
14241	Benzo(a)anthracene	56-55-3	0.1 U	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	0.1 U	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	3 U	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	2 U	2	5	1
14241	Di-n-butylphthalate	84-74-2	2 U	2	5	1
14241	Caprolactam	105-60-2	5 U	5	11	1
14241	Carbazole	86-74-8	0.5 U	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	0.5 U	0.5	2	1
14241	4-Chloroaniline	106-47-8	4 U	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14241	2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-H04-M02B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739850
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 13:12

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	2-Chlorophenol	95-57-8	0.5 U	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14241	2,2'-oxybis(1-Chloropropane)	108-60-1	0.5 U	0.5	2	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14241	Dibenzofuran	132-64-9	0.5 U	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	3 U	3	10	1
14241	2,4-Dichlorophenol	120-83-2	0.5 U	0.5	2	1
14241	Diethylphthalate	84-66-2	2 U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3 U	3	10	1
14241	Dimethylphthalate	131-11-3	2 U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	8 U	8	22	1
14241	2,4-Dinitrophenol	51-28-5	14 U	14	31	1
14241	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14241	Diphenyl ether	101-84-8	0.5 U	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	11	1
14241	Fluoranthene	206-44-0	0.1 U	0.1	0.5	1
14241	Fluorene	86-73-7	0.1 U	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5 U	5	11	1
14241	Hexachloroethane	67-72-1	1 U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1
14241	Isophorone	78-59-1	0.5 U	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	0.1 U	0.1	0.5	1
14241	2-Methylphenol	95-48-7	0.5 U	0.5	2	1
14241	4-Methylphenol	106-44-5	0.5 U	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	0.1 U	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	8 U	8	22	1
14241	2-Naphthylamine	91-59-8	7 U	7	22	1
14241	2-Nitroaniline	88-74-4	2 U	2	7	1
14241	3-Nitroaniline	99-09-2	3 U	3	7	1
14241	4-Nitroaniline	100-01-6	0.9 U	0.9	3	1
14241	Nitrobenzene	98-95-3	0.5 U	0.5	2	1
14241	2-Nitrophenol	88-75-5	3 U	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-H04-M02B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739850
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 13:12

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	4-Nitrophenol	100-02-7	10 U	10	31	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	0.7 U	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	0.1 U	0.1	0.5	1
14241	Phenol	108-95-2	0.5 U	0.5	2	1
14241	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14241	o-Toluidine	95-53-4	4 U	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	0.5 U	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

The project QA/QC requirements were not met.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

11659 Targeted Library Search (SVOC)

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined at the end of the report.

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
10602	Ethane	74-84-0	1.0 U	1.0	5.0
10602	Ethene	74-85-1	1.0 U	1.0	5.0
10602	Methane	74-82-8	65	3.0	5.0

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182272AA	08/16/2018 00:28	Kevin D Kelly	1
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182232AA	08/11/2018 10:02	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182232AA	08/11/2018 10:02	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	2	W182272AA	08/16/2018 00:28	Kevin D Kelly	1
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18219WAF026	08/13/2018 04:28	Ashley R Transue	1

*=This limit was used in the evaluation of the final result

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Sample Description: SPBGW2H18-H04-M02B Groundwater
SC SPB WELL SAMPLING 2H18**The Chemours Company FC, LLC**
ELLE Sample #: WW 9739850
ELLE Group #: 1973450
Matrix: Groundwater**Project Name:** CWK - SC SPB WELL SAMPLINGSubmittal Date/Time: 08/06/2018 18:22
Collection Date/Time: 08/06/2018 13:12**Laboratory Sample Analysis Record**

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11010	8270D BNA Extraction	SW-846 3510C	1	18219WAF026	08/07/2018 10:00	Logan M Brosemer	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182200004A	08/08/2018 12:54	Johanna C Kennedy	1

*=This limit was used in the evaluation of the final result

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

! _____ !
! SC-05 !

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 9739850
Sample wt/vol: 243 (g/mL) mL Lab File ID: 1h0920.d
Level: (low/med) LOW Date Received: 08/06/18
% Moisture: Decanted: (Y/N) Date Extracted: 08/07/18
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/13/18
Injection Volume: 1 (uL) Dilution Factor: 1
GPC Cleanup: N pH: Extraction: Sepf

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.95-51-2	!o-Chloroaniline		0	
2.90-41-5	![1,1'-Biphenyl]-2-amine		0	
3.	!			
4.SVOCTIC	!Total SVOC TICs		0	
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FORM I SV-1

Sample Description: SPBGW2H18-H04-M02B MS Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739851
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 13:12

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	130	6	20	1
11997	Benzene	71-43-2	22	0.5	1	1
11997	Bromodichloromethane	75-27-4	19	0.5	1	1
11997	Bromoform	75-25-2	17	0.5	4	1
11997	Bromomethane	74-83-9	17	0.5	1	1
11997	2-Butanone	78-93-3	140	3	10	1
11997	Carbon Disulfide	75-15-0	20	1	5	1
11997	Carbon Tetrachloride	56-23-5	25	0.5	1	1
11997	Chlorobenzene	108-90-7	20	0.5	1	1
11997	Chloroethane	75-00-3	16	0.5	1	1
11997	Chloroform	67-66-3	21	0.5	1	1
11997	Chloromethane	74-87-3	15	0.5	1	1
11997	Cyclohexane	110-82-7	24	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	17	2	5	1
11997	Dibromochloromethane	124-48-1	19	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	19	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	18	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	19	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	19	1	5	1
11997	Dichlorodifluoromethane	75-71-8	19	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	20	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	19	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	24	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	22	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	22	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	22	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	20	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	19	0.5	1	1
11997	Ethylbenzene	100-41-4	20	0.5	1	1
11997	Freon 113	76-13-1	23	2	10	1
11997	2-Hexanone	591-78-6	93	3	10	1
11997	Isopropylbenzene	98-82-8	20	1	5	1
11997	Methyl Acetate	79-20-9	20	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	16	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	100	3	10	1
11997	Methylcyclohexane	108-87-2	25	1	5	1
11997	Methylene Chloride	75-09-2	23	0.5	1	1
11997	Styrene	100-42-5	20	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	18	0.5	1	1
11997	Tetrachloroethene	127-18-4	21	0.5	1	1
11997	Toluene	108-88-3	20	0.5	1	1
11997	1,2,4-Trichlorobenzene	120-82-1	17	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-H04-M02B MS Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739851
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 13:12

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Volatiles	SW-846 8260C	ug/l	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	21	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	20	0.5	1	1
11997	Trichloroethene	79-01-6	21	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	20	0.5	1	1
11997	Vinyl Chloride	75-01-4	16	0.5	1	1
11997	m+p-Xylene	179601-23-1	41	0.5	1	1
11997	o-Xylene	95-47-6	19	0.5	1	1
11997	Xylene (Total)	1330-20-7	60	0.5	1	1

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane

GC/MS Volatiles	SW-846 8260C SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	4.5	0.2	0.4

GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	Acenaphthene	83-32-9	43	0.1	0.5
14241	Acenaphthylene	208-96-8	44	0.1	0.5
14241	Acetophenone	98-86-2	43	4	10
14241	4-Aminobiphenyl	92-67-1	33	5	11
14241	Aniline	62-53-3	21	3	10
14241	Anthracene	120-12-7	43	0.1	0.5
14241	Atrazine	1912-24-9	44	2	5
14241	Benzaldehyde	100-52-7	41	3	10
14241	Benzidine	92-87-5	20	U	60
14241	Benzo(a)anthracene	56-55-3	43	0.1	0.5
14241	Benzo(a)pyrene	50-32-8	39	0.1	0.5
14241	Benzo(b)fluoranthene	205-99-2	39	0.1	0.5
14241	Benzo(g,h,i)perylene	191-24-2	27	0.1	0.5
14241	Benzo(k)fluoranthene	207-08-9	40	0.1	0.5
14241	1,1'-Biphenyl	92-52-4	40	3	10
14241	4-Bromophenyl-phenylether	101-55-3	42	0.5	2
14241	Butylbenzylphthalate	85-68-7	41	2	5
14241	Di-n-butylphthalate	84-74-2	45	2	5
14241	Caprolactam	105-60-2	13	5	11
14241	Carbazole	86-74-8	47	0.5	2
14241	4-Chloro-3-methylphenol	59-50-7	41	0.5	2
14241	4-Chloroaniline	106-47-8	25	4	10
14241	bis(2-Chloroethoxy)methane	111-91-1	43	0.5	2
14241	bis(2-Chloroethyl)ether	111-44-4	42	0.5	2
14241	2-Chloronaphthalene	91-58-7	39	0.4	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-H04-M02B MS Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739851
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 13:12

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	2-Chlorophenol	95-57-8	36	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	42	0.5	2	1
14241	2,2'-oxybis(1-Chloropropane)	108-60-1	43	0.5	2	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	Chrysene	218-01-9	41	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	31	0.1	0.5	1
14241	Dibenzofuran	132-64-9	42	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	28	3	10	1
14241	2,4-Dichlorophenol	120-83-2	39	0.5	2	1
14241	Diethylphthalate	84-66-2	42	2	5	1
14241	2,4-Dimethylphenol	105-67-9	32	3	10	1
14241	Dimethylphthalate	131-11-3	35	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	44	8	21	1
14241	2,4-Dinitrophenol	51-28-5	85	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	41	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	44	0.5	2	1
14241	Diphenyl ether	101-84-8	39	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	45	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	39	5	11	1
14241	Fluoranthene	206-44-0	44	0.1	0.5	1
14241	Fluorene	86-73-7	43	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	41	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	33	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	53	5	11	1
14241	Hexachloroethane	67-72-1	33	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	30	0.1	0.5	1
14241	Isophorone	78-59-1	45	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	40	0.1	0.5	1
14241	2-Methylphenol	95-48-7	35	0.5	2	1
14241	4-Methylphenol	106-44-5	33	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	39	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	33	8	21	1
14241	2-Naphthylamine	91-59-8	27	7	21	1
14241	2-Nitroaniline	88-74-4	51	2	7	1
14241	3-Nitroaniline	99-09-2	40	3	7	1
14241	4-Nitroaniline	100-01-6	43	0.9	3	1
14241	Nitrobenzene	98-95-3	42	0.5	2	1
14241	2-Nitrophenol	88-75-5	41	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-H04-M02B MS Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739851
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 13:12

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	4-Nitrophenol	100-02-7	29 J	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	44	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	45	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	38	5	11	1
14241	Pentachlorophenol	87-86-5	45	1	5	1
14241	Phenanthren	85-01-8	41	0.1	0.5	1
14241	Phenol	108-95-2	23	0.5	2	1
14241	Pyrene	129-00-0	43	0.1	0.5	1
14241	o-Toluidine	95-53-4	22	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	42	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	39	0.5	2	1

The project QA/QC requirements were not met.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. Sufficient sample was not available to repeat the analysis.

CAT No.	Analysis Name	Method	ug/l	ug/l	ug/l	Dilution Factor
10602	Ethane	74-84-0	55	1.0	5.0	1
10602	Ethene	74-85-1	58	1.0	5.0	1
10602	Methane	74-82-8	110	3.0	5.0	1

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182272AA	08/16/2018 00:52	Kevin D Kelly	1
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182232AA	08/11/2018 11:02	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182232AA	08/11/2018 11:02	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	2	W182272AA	08/16/2018 00:52	Kevin D Kelly	1
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18219WAF026	08/13/2018 04:56	Ashley R Transue	1
11010	8270D BNA Extraction	SW-846 3510C	1	18219WAF026	08/07/2018 10:00	Logan M Brosemer	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182200004A	08/08/2018 13:10	Johanna C Kennedy	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-H04-M02B MSD Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739852
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 13:12

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	130	6	20	1
11997	Benzene	71-43-2	22	0.5	1	1
11997	Bromodichloromethane	75-27-4	20	0.5	1	1
11997	Bromoform	75-25-2	17	0.5	4	1
11997	Bromomethane	74-83-9	18	0.5	1	1
11997	2-Butanone	78-93-3	140	3	10	1
11997	Carbon Disulfide	75-15-0	20	1	5	1
11997	Carbon Tetrachloride	56-23-5	24	0.5	1	1
11997	Chlorobenzene	108-90-7	20	0.5	1	1
11997	Chloroethane	75-00-3	18	0.5	1	1
11997	Chloroform	67-66-3	21	0.5	1	1
11997	Chloromethane	74-87-3	16	0.5	1	1
11997	Cyclohexane	110-82-7	24	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	18	2	5	1
11997	Dibromochloromethane	124-48-1	19	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	19	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	19	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	20	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	19	1	5	1
11997	Dichlorodifluoromethane	75-71-8	18	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	21	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	19	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	24	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	22	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	22	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	22	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	20	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	19	0.5	1	1
11997	Ethylbenzene	100-41-4	21	0.5	1	1
11997	Freon 113	76-13-1	23	2	10	1
11997	2-Hexanone	591-78-6	94	3	10	1
11997	Isopropylbenzene	98-82-8	21	1	5	1
11997	Methyl Acetate	79-20-9	20	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	18	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	99	3	10	1
11997	Methylcyclohexane	108-87-2	25	1	5	1
11997	Methylene Chloride	75-09-2	23	0.5	1	1
11997	Styrene	100-42-5	20	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	18	0.5	1	1
11997	Tetrachloroethene	127-18-4	22	0.5	1	1
11997	Toluene	108-88-3	21	0.5	1	1
11997	1,2,4-Trichlorobenzene	120-82-1	18	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-H04-M02B MSD Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739852
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 13:12

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Volatiles	SW-846 8260C	ug/l	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	21	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	20	0.5	1	1
11997	Trichloroethene	79-01-6	21	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	21	0.5	1	1
11997	Vinyl Chloride	75-01-4	16	0.5	1	1
11997	m+p-Xylene	179601-23-1	41	0.5	1	1
11997	o-Xylene	95-47-6	19	0.5	1	1
11997	Xylene (Total)	1330-20-7	60	0.5	1	1

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane

GC/MS Volatiles	SW-846 8260C SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	5.0	0.2	0.4

GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	Acenaphthene	83-32-9	43	0.1	0.5
14241	Acenaphthylene	208-96-8	45	0.1	0.5
14241	Acetophenone	98-86-2	38	4	10
14241	4-Aminobiphenyl	92-67-1	31	5	11
14241	Aniline	62-53-3	19	3	10
14241	Anthracene	120-12-7	43	0.1	0.5
14241	Atrazine	1912-24-9	43	2	5
14241	Benzaldehyde	100-52-7	36	3	10
14241	Benzidine	92-87-5	20	U	20
14241	Benzo(a)anthracene	56-55-3	44	0.1	0.5
14241	Benzo(a)pyrene	50-32-8	42	0.1	0.5
14241	Benzo(b)fluoranthene	205-99-2	41	0.1	0.5
14241	Benzo(g,h,i)perylene	191-24-2	38	0.1	0.5
14241	Benzo(k)fluoranthene	207-08-9	43	0.1	0.5
14241	1,1'-Biphenyl	92-52-4	41	3	10
14241	4-Bromophenyl-phenylether	101-55-3	42	0.5	2
14241	Butylbenzylphthalate	85-68-7	42	2	5
14241	Di-n-butylphthalate	84-74-2	42	2	5
14241	Caprolactam	105-60-2	13	5	11
14241	Carbazole	86-74-8	45	0.5	2
14241	4-Chloro-3-methylphenol	59-50-7	43	0.5	2
14241	4-Chloroaniline	106-47-8	25	4	10
14241	bis(2-Chloroethoxy)methane	111-91-1	41	0.5	2
14241	bis(2-Chloroethyl)ether	111-44-4	36	0.5	2
14241	2-Chloronaphthalene	91-58-7	40	0.4	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-H04-M02B MSD Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739852
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 13:12

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	SW-846 8270D		ug/l	ug/l	ug/l	
14241	2-Chlorophenol	95-57-8	34	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	41	0.5	2	1
14241	2,2'-oxybis(1-Chloropropane)	108-60-1	34	0.5	2	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	Chrysene	218-01-9	43	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	40	0.1	0.5	1
14241	Dibenzofuran	132-64-9	43	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	34	3	10	1
14241	2,4-Dichlorophenol	120-83-2	41	0.5	2	1
14241	Diethylphthalate	84-66-2	39	2	5	1
14241	2,4-Dimethylphenol	105-67-9	34	3	10	1
14241	Dimethylphthalate	131-11-3	41	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	47	8	21	1
14241	2,4-Dinitrophenol	51-28-5	99	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	45	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	44	0.5	2	1
14241	Diphenyl ether	101-84-8	41	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	41	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	39	5	11	1
14241	Fluoranthene	206-44-0	44	0.1	0.5	1
14241	Fluorene	86-73-7	43	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	37	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	33	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	63	5	11	1
14241	Hexachloroethane	67-72-1	30	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	38	0.1	0.5	1
14241	Isophorone	78-59-1	41	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	40	0.1	0.5	1
14241	2-Methylphenol	95-48-7	35	0.5	2	1
14241	4-Methylphenol	106-44-5	32	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	38	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	29	8	21	1
14241	2-Naphthylamine	91-59-8	24	7	21	1
14241	2-Nitroaniline	88-74-4	46	2	7	1
14241	3-Nitroaniline	99-09-2	35	3	7	1
14241	4-Nitroaniline	100-01-6	39	0.9	3	1
14241	Nitrobenzene	98-95-3	38	0.5	2	1
14241	2-Nitrophenol	88-75-5	43	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-H04-M02B MSD Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739852
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 13:12

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	SW-846 8270D		ug/l	ug/l	ug/l	
14241	4-Nitrophenol	100-02-7	33	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	38	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	46	0.7	3	1
				N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.		
14241	Di-n-octylphthalate	117-84-0	39	5	11	1
14241	Pentachlorophenol	87-86-5	43	1	5	1
14241	Phenanthren	85-01-8	42	0.1	0.5	1
14241	Phenol	108-95-2	22	0.5	2	1
14241	Pyrene	129-00-0	44	0.1	0.5	1
14241	o-Toluidine	95-53-4	21	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	46	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	43	0.5	2	1

The project QA/QC requirements were not met.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. Sufficient sample was not available to repeat the analysis.

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
10602	Ethane	74-84-0	55	1.0	5.0
10602	Ethene	74-85-1	59	1.0	5.0
10602	Methane	74-82-8	120	3.0	5.0

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182272AA	08/16/2018 01:16	Kevin D Kelly	1
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182232AA	08/11/2018 11:23	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182232AA	08/11/2018 11:23	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	2	W182272AA	08/16/2018 01:16	Kevin D Kelly	1
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18219WAF026	08/14/2018 18:01	Ashley R Transue	1
11010	8270D BNA Extraction	SW-846 3510C	1	18219WAF026	08/07/2018 10:00	Logan M Brosemer	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182200004A	08/08/2018 13:26	Johanna C Kennedy	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-J04-M01B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739853
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 11:48

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	6 U	6	20	1
11997	Benzene	71-43-2	0.5 U	0.5	1	1
11997	Bromodichloromethane	75-27-4	0.5 U	0.5	1	1
11997	Bromoform	75-25-2	0.5 U	0.5	4	1
11997	Bromomethane	74-83-9	0.5 U	0.5	1	1
11997	2-Butanone	78-93-3	3 U	3	10	1
11997	Carbon Disulfide	75-15-0	1 U	1	5	1
11997	Carbon Tetrachloride	56-23-5	0.5 U	0.5	1	1
11997	Chlorobenzene	108-90-7	0.5 U	0.5	1	1
11997	Chloroethane	75-00-3	0.5 U	0.5	1	1
11997	Chloroform	67-66-3	0.5 U	0.5	1	1
11997	Chloromethane	74-87-3	0.5 U	0.5	1	1
11997	Cyclohexane	110-82-7	2 U	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	2 U	2	5	1
11997	Dibromochloromethane	124-48-1	0.5 U	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	0.5 U	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	1 U	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	1 U	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	1 U	1	5	1
11997	Dichlorodifluoromethane	75-71-8	0.5 U	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	0.5 U	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	0.5 U	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	0.5 U	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	0.5 U	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	0.5 U	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	0.5 U	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	0.5 U	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	0.5 U	0.5	1	1
11997	Ethylbenzene	100-41-4	0.5 U	0.5	1	1
11997	Freon 113	76-13-1	2 U	2	10	1
11997	2-Hexanone	591-78-6	3 U	3	10	1
11997	Isopropylbenzene	98-82-8	1 U	1	5	1
11997	Methyl Acetate	79-20-9	1 U	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	0.5 U	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	3 U	3	10	1
11997	Methylcyclohexane	108-87-2	1 U	1	5	1
11997	Methylene Chloride	75-09-2	0.5 U	0.5	1	1
11997	Styrene	100-42-5	1 U	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	0.5 U	0.5	1	1
11997	Tetrachloroethene	127-18-4	0.5 U	0.5	1	1
11997	Toluene	108-88-3	0.5 U	0.5	1	1
11997	1,2,4-Trichlorobenzene	120-82-1	1 U	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-J04-M01B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739853
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 11:48

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	0.5 U	0.5	1	1
11997	Trichloroethene	79-01-6	0.5 U	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	0.5 U	0.5	1	1
11997	Vinyl Chloride	75-01-4	0.5 U	0.5	1	1
11997	m+p-Xylene	179601-23-1	0.5 U	0.5	1	1
11997	o-Xylene	95-47-6	0.5 U	0.5	1	1
11997	Xylene (Total)	1330-20-7	0.5 U	0.5	1	1

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane

GC/MS Volatiles	SW-846 8260C SIM		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.2 U	0.2	0.4	1

GC/MS Semivolatiles	SW-846 8270D		ug/l	ug/l	ug/l	
14241	Acenaphthene	83-32-9	0.1 U	0.1	0.5	1
14241	Acenaphthylene	208-96-8	0.1 U	0.1	0.5	1
14241	Acetophenone	98-86-2	4 U	4	10	1
14241	4-Aminobiphenyl	92-67-1	5 U	5	11	1
14241	Aniline	62-53-3	3 U	3	10	1
14241	Anthracene	120-12-7	0.1 U	0.1	0.5	1
14241	Atrazine	1912-24-9	2 U	2	5	1
14241	Benzaldehyde	100-52-7	3 U	3	10	1
14241	Benzidine	92-87-5	20 U	20	60	1
14241	Benzo(a)anthracene	56-55-3	0.1 U	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	0.1 U	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	3 U	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	2 U	2	5	1
14241	Di-n-butylphthalate	84-74-2	2 U	2	5	1
14241	Caprolactam	105-60-2	5 U	5	11	1
14241	Carbazole	86-74-8	0.5 U	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	0.5 U	0.5	2	1
14241	4-Chloroaniline	106-47-8	4 U	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14241	2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-J04-M01B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739853
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 11:48

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	2-Chlorophenol	95-57-8	0.5 U	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14241	2,2'-oxybis(1-Chloropropane)	108-60-1	0.5 U	0.5	2	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14241	Dibenzofuran	132-64-9	0.5 U	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	3 U	3	10	1
14241	2,4-Dichlorophenol	120-83-2	0.5 U	0.5	2	1
14241	Diethylphthalate	84-66-2	2 U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3 U	3	10	1
14241	Dimethylphthalate	131-11-3	2 U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	8 U	8	21	1
14241	2,4-Dinitrophenol	51-28-5	14 U	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14241	Diphenyl ether	101-84-8	0.5 U	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	11	1
14241	Fluoranthene	206-44-0	0.1 U	0.1	0.5	1
14241	Fluorene	86-73-7	0.1 U	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5 U	5	11	1
14241	Hexachloroethane	67-72-1	1 U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1
14241	Isophorone	78-59-1	0.5 U	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	0.1 U	0.1	0.5	1
14241	2-Methylphenol	95-48-7	0.5 U	0.5	2	1
14241	4-Methylphenol	106-44-5	0.5 U	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	0.1 U	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	8 U	8	21	1
14241	2-Naphthylamine	91-59-8	7 U	7	21	1
14241	2-Nitroaniline	88-74-4	2 U	2	7	1
14241	3-Nitroaniline	99-09-2	3 U	3	7	1
14241	4-Nitroaniline	100-01-6	0.9 U	0.9	3	1
14241	Nitrobenzene	98-95-3	0.5 U	0.5	2	1
14241	2-Nitrophenol	88-75-5	3 U	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-J04-M01B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739853
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 11:48

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	4-Nitrophenol	100-02-7	10 U	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	0.7 U	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	0.1 U	0.1	0.5	1
14241	Phenol	108-95-2	0.5 U	0.5	2	1
14241	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14241	o-Toluidine	95-53-4	4 U	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	0.5 U	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

The project QA/QC requirements were not met.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

11659 Targeted Library Search (SVOC)

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined at the end of the report.

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l
10602	Ethane	74-84-0	1.0 U	1.0
10602	Ethene	74-85-1	1.0 U	1.0
10602	Methane	74-82-8	3.0 U	3.0

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182272AA	08/16/2018 04:05	Kevin D Kelly	1
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182232AA	08/11/2018 19:28	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182232AA	08/11/2018 19:28	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	2	W182272AA	08/16/2018 04:05	Kevin D Kelly	1
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18219WAF026	08/14/2018 18:29	Ashley R Transue	1

*=This limit was used in the evaluation of the final result

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Sample Description: SPBGW2H18-J04-M01B Groundwater
SC SPB WELL SAMPLING 2H18**The Chemours Company FC, LLC**
ELLE Sample #: WW 9739853
ELLE Group #: 1973450
Matrix: Groundwater**Project Name:** CWK - SC SPB WELL SAMPLINGSubmittal Date/Time: 08/06/2018 18:22
Collection Date/Time: 08/06/2018 11:48**Laboratory Sample Analysis Record**

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11010	8270D BNA Extraction	SW-846 3510C	1	18219WAF026	08/07/2018 10:00	Logan M Brosemer	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182200004A	08/08/2018 15:16	Johanna C Kennedy	1

*=This limit was used in the evaluation of the final result

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

! _____ !
! SC-06 !

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 9739853
Sample wt/vol: 248 (g/mL) mL Lab File ID: 1h1025.d
Level: (low/med) LOW Date Received: 08/06/18
% Moisture: Decanted: (Y/N) Date Extracted: 08/07/18
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/14/18
Injection Volume: 1 (uL) Dilution Factor: 1
GPC Cleanup: N pH: Extraction: Sepf

CONCENTRATION UNITS:

Number TICs found: 3 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 95-51-2	o-Chloroaniline			
2. 90-41-5	[1,1'-Biphenyl]-2-amine			
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
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29. _____				
30. _____				

page 1 of 1

FORM I SV-1

Sample Description: SPBGW2H18-I05-M03B-D Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739854
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 09:44

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Volatiles	SW-846 8260C	ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	7 J	6	20	1
11997	Benzene	71-43-2	4	0.5	1	1
11997	Bromodichloromethane	75-27-4	0.5 U	0.5	1	1
11997	Bromoform	75-25-2	0.5 U	0.5	4	1
11997	Bromomethane	74-83-9	0.5 U	0.5	1	1
11997	2-Butanone	78-93-3	3 U	3	10	1
11997	Carbon Disulfide	75-15-0	9	1	5	1
11997	Carbon Tetrachloride	56-23-5	0.5 U	0.5	1	1
11997	Chlorobenzene	108-90-7	230	0.5	1	1
11997	Chloroethane	75-00-3	3	0.5	1	1
11997	Chloroform	67-66-3	0.5 U	0.5	1	1
11997	Chloromethane	74-87-3	0.5 U	0.5	1	1
11997	Cyclohexane	110-82-7	3 J	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	2 U	2	5	1
11997	Dibromochloromethane	124-48-1	0.5 U	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	0.5 U	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	27	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	1 J	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	15	1	5	1
11997	Dichlorodifluoromethane	75-71-8	0.5 U	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	23	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	0.5 U	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	0.5 U	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	1	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	0.5 U	0.5	1	1
11997	1,2-Dichloropropene	78-87-5	0.5 U	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	0.5 U	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	0.5 U	0.5	1	1
11997	Ethylbenzene	100-41-4	16	0.5	1	1
11997	Freon 113	76-13-1	2 U	2	10	1
11997	2-Hexanone	591-78-6	3 U	3	10	1
11997	Isopropylbenzene	98-82-8	2 J	1	5	1
11997	Methyl Acetate	79-20-9	1 U	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	0.5 U	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	3 U	3	10	1
11997	Methylcyclohexane	108-87-2	1 U	1	5	1
11997	Methylene Chloride	75-09-2	0.5 U	0.5	1	1
11997	Styrene	100-42-5	1 U	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	0.5 U	0.5	1	1
11997	Tetrachloroethene	127-18-4	0.5 U	0.5	1	1
11997	Toluene	108-88-3	3	0.5	1	1
11997	1,2,4-Trichlorobenzene	120-82-1	1 U	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-I05-M03B-D Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739854
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 09:44

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	0.5 U	0.5	1	1
11997	Trichloroethene	79-01-6	4	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	0.5 U	0.5	1	1
11997	Vinyl Chloride	75-01-4	0.5 U	0.5	1	1
11997	m+p-Xylene	179601-23-1	5	0.5	1	1
11997	o-Xylene	95-47-6	30	0.5	1	1
11997	Xylene (Total)	1330-20-7	34	0.5	1	1

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane

GC/MS Volatiles	SW-846 8260C SIM	ug/l	ug/l	ug/l	
00527 1,4-Dioxane	123-91-1	1.0	0.2	0.4	1

GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241 Acenaphthene	83-32-9	6	0.1	0.5	1
14241 Acenaphthylene	208-96-8	0.1 U	0.1	0.5	1
14241 Acetophenone	98-86-2	4 U	4	10	1
14241 4-Aminobiphenyl	92-67-1	5 U	5	11	1
14241 Aniline	62-53-3	3 U	3	10	1
14241 Anthracene	120-12-7	0.1 U	0.1	0.5	1
14241 Atrazine	1912-24-9	2 U	2	5	1
14241 Benzaldehyde	100-52-7	3 U	3	10	1
14241 Benzdidine	92-87-5	20 U	20	60	1
14241 Benzo(a)anthracene	56-55-3	0.1 U	0.1	0.5	1
14241 Benzo(a)pyrene	50-32-8	0.1 U	0.1	0.5	1
14241 Benzo(b)fluoranthene	205-99-2	0.1 U	0.1	0.5	1
14241 Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1	0.5	1
14241 Benzo(k)fluoranthene	207-08-9	0.1 U	0.1	0.5	1
14241 1,1'-Biphenyl	92-52-4	3 U	3	10	1
14241 4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5	2	1
14241 Butylbenzylphthalate	85-68-7	2 U	2	5	1
14241 Di-n-butylphthalate	84-74-2	2 U	2	5	1
14241 Caprolactam	105-60-2	5 U	5	11	1
14241 Carbazole	86-74-8	0.5 U	0.5	2	1
14241 4-Chloro-3-methylphenol	59-50-7	0.5 U	0.5	2	1
14241 4-Chloroaniline	106-47-8	4 U	4	10	1
14241 bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14241 bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14241 2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-I05-M03B-D Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739854
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 09:44

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	2-Chlorophenol	95-57-8	0.5 U	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14241	2,2'-oxybis(1-Chloropropane) Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.	108-60-1	0.5 U	0.5	2	1
14241	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14241	Dibenzofuran	132-64-9	0.5 U	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	3 U	3	10	1
14241	2,4-Dichlorophenol	120-83-2	0.5 U	0.5	2	1
14241	Diethylphthalate	84-66-2	2 U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3 U	3	10	1
14241	Dimethylphthalate	131-11-3	2 U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	8 U	8	21	1
14241	2,4-Dinitrophenol	51-28-5	14 U	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14241	Diphenyl ether	101-84-8	82	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	11	1
14241	Fluoranthene	206-44-0	0.1 U	0.1	0.5	1
14241	Fluorene	86-73-7	0.1 U	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5 U	5	11	1
14241	Hexachloroethane	67-72-1	1 U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1
14241	Isophorone	78-59-1	0.5 U	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	0.1 U	0.1	0.5	1
14241	2-Methylphenol	95-48-7	0.5 U	0.5	2	1
14241	4-Methylphenol	106-44-5	0.5 U	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	0.1 U	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	16 J	8	21	1
14241	2-Naphthylamine	91-59-8	7 U	7	21	1
14241	2-Nitroaniline	88-74-4	2 U	2	7	1
14241	3-Nitroaniline	99-09-2	3 U	3	7	1
14241	4-Nitroaniline	100-01-6	0.9 U	0.9	3	1
14241	Nitrobenzene	98-95-3	0.5 U	0.5	2	1
14241	2-Nitrophenol	88-75-5	3 U	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-I05-M03B-D Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739854
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22
Collection Date/Time: 08/06/2018 09:44

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	4-Nitrophenol	100-02-7	10 U	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	1 J	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	0.1 U	0.1	0.5	1
14241	Phenol	108-95-2	1 J	0.5	2	1
14241	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14241	o-Toluidine	95-53-4	4 U	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	0.5 U	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

The project QA/QC requirements were not met.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

11659 Targeted Library Search (SVOC)

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined at the end of the report.

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
10602	Ethane	74-84-0	1.0 U	1.0	5.0
10602	Ethene	74-85-1	1.5 J	1.0	5.0
10602	Methane	74-82-8	1,600	60	100

The container used for the testing had headspace at the time of the Methane analysis.

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182272AA	08/16/2018 04:53	Kevin D Kelly	1
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182271AA	08/15/2018 14:17	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182271AA	08/15/2018 14:17	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030C	2	W182272AA	08/16/2018 04:53	Kevin D Kelly	1

*=This limit was used in the evaluation of the final result

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Sample Description: SPBGW2H18-I05-M03B-D Groundwater
SC SPB WELL SAMPLING 2H18**The Chemours Company FC, LLC**
ELLE Sample #: WW 9739854
ELLE Group #: 1973450
Matrix: Groundwater**Project Name:** CWK - SC SPB WELL SAMPLINGSubmittal Date/Time: 08/06/2018 18:22
Collection Date/Time: 08/06/2018 09:44**Laboratory Sample Analysis Record**

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18219WAF026	08/14/2018 18:57	Ashley R Transue	1
11010	8270D BNA Extraction	SW-846 3510C	1	18219WAF026	08/07/2018 10:00	Logan M Brosemer	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182200004A	08/08/2018 15:31	Johanna C Kennedy	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182200004A	08/13/2018 18:48	Johanna C Kennedy	20

*=This limit was used in the evaluation of the final result

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

! _____ !
! SC-07 !

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 9739854
Sample wt/vol: 249 (g/mL) mL Lab File ID: 1h1026.d
Level: (low/med) LOW Date Received: 08/06/18
% Moisture: Decanted: (Y/N) Date Extracted: 08/07/18
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/14/18
Injection Volume: 1 (uL) Dilution Factor: 1
GPC Cleanup: N pH: Extraction: Sepf

CONCENTRATION UNITS:

Number TICs found: 25 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 95-51-2	o-Chloroaniline			
2. 90-41-5	[1,1'-Biphenyl]-2-amine			
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28.				

page 1 of 1

FORM I SV-1

Sample Description: SPBGW2H18-EB-20 Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739855
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 08:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	6 U	6	20	1
11997	Benzene	71-43-2	0.5 U	0.5	1	1
11997	Bromodichloromethane	75-27-4	0.5 U	0.5	1	1
11997	Bromoform	75-25-2	0.5 U	0.5	4	1
11997	Bromomethane	74-83-9	0.5 U	0.5	1	1
11997	2-Butanone	78-93-3	3 U	3	10	1
11997	Carbon Disulfide	75-15-0	1 U	1	5	1
11997	Carbon Tetrachloride	56-23-5	0.5 U	0.5	1	1
11997	Chlorobenzene	108-90-7	0.5 U	0.5	1	1
11997	Chloroethane	75-00-3	0.5 U	0.5	1	1
11997	Chloroform	67-66-3	0.5 U	0.5	1	1
11997	Chloromethane	74-87-3	0.5 U	0.5	1	1
11997	Cyclohexane	110-82-7	2 U	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	2 U	2	5	1
11997	Dibromochloromethane	124-48-1	0.5 U	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	0.5 U	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	1 U	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	1 U	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	1 U	1	5	1
11997	Dichlorodifluoromethane	75-71-8	0.5 U	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	0.5 U	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	0.5 U	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	0.5 U	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	0.5 U	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	0.5 U	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	0.5 U	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	0.5 U	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	0.5 U	0.5	1	1
11997	Ethylbenzene	100-41-4	0.5 U	0.5	1	1
11997	Freon 113	76-13-1	2 U	2	10	1
11997	2-Hexanone	591-78-6	3 U	3	10	1
11997	Isopropylbenzene	98-82-8	1 U	1	5	1
11997	Methyl Acetate	79-20-9	1 U	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	0.5 U	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	3 U	3	10	1
11997	Methylcyclohexane	108-87-2	1 U	1	5	1
11997	Methylene Chloride	75-09-2	0.5 U	0.5	1	1
11997	Styrene	100-42-5	1 U	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	0.5 U	0.5	1	1
11997	Tetrachloroethene	127-18-4	0.5 U	0.5	1	1
11997	Toluene	108-88-3	0.5 U	0.5	1	1
11997	1,2,4-Trichlorobenzene	120-82-1	1 U	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-EB-20 Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739855
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 08:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	0.5 U	0.5	1	1
11997	Trichloroethene	79-01-6	0.5 U	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	0.5 U	0.5	1	1
11997	Vinyl Chloride	75-01-4	0.5 U	0.5	1	1
11997	m+p-Xylene	179601-23-1	0.5 U	0.5	1	1
11997	o-Xylene	95-47-6	0.5 U	0.5	1	1
11997	Xylene (Total)	1330-20-7	0.5 U	0.5	1	1

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane

GC/MS Volatiles	SW-846 8260C SIM		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.2 U	0.2	0.4	1

GC/MS Semivolatiles	SW-846 8270D		ug/l	ug/l	ug/l	
14241	Acenaphthene	83-32-9	0.1 U	0.1	0.5	1
14241	Acenaphthylene	208-96-8	0.1 U	0.1	0.5	1
14241	Acetophenone	98-86-2	4 U	4	10	1
14241	4-Aminobiphenyl	92-67-1	5 U	5	11	1
14241	Aniline	62-53-3	3 U	3	10	1
14241	Anthracene	120-12-7	0.1 U	0.1	0.5	1
14241	Atrazine	1912-24-9	2 U	2	5	1
14241	Benzaldehyde	100-52-7	3 U	3	10	1
14241	Benzidine	92-87-5	20 U	20	60	1
14241	Benzo(a)anthracene	56-55-3	0.1 U	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	0.1 U	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	3 U	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	2 U	2	5	1
14241	Di-n-butylphthalate	84-74-2	2 U	2	5	1
14241	Caprolactam	105-60-2	5 U	5	11	1
14241	Carbazole	86-74-8	0.5 U	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	0.5 U	0.5	2	1
14241	4-Chloroaniline	106-47-8	4 U	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14241	2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-EB-20 Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739855
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 08:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	2-Chlorophenol	95-57-8	0.5 U	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14241	2,2'-oxybis(1-Chloropropane)	108-60-1	0.5 U	0.5	2	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14241	Dibenzofuran	132-64-9	0.5 U	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	3 U	3	10	1
14241	2,4-Dichlorophenol	120-83-2	0.5 U	0.5	2	1
14241	Diethylphthalate	84-66-2	2 U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3 U	3	10	1
14241	Dimethylphthalate	131-11-3	2 U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	8 U	8	21	1
14241	2,4-Dinitrophenol	51-28-5	14 U	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14241	Diphenyl ether	101-84-8	0.5 U	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	11	1
14241	Fluoranthene	206-44-0	0.1 U	0.1	0.5	1
14241	Fluorene	86-73-7	0.1 U	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5 U	5	11	1
14241	Hexachloroethane	67-72-1	1 U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1
14241	Isophorone	78-59-1	0.5 U	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	0.1 U	0.1	0.5	1
14241	2-Methylphenol	95-48-7	0.5 U	0.5	2	1
14241	4-Methylphenol	106-44-5	0.5 U	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	0.1 U	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	8 U	8	21	1
14241	2-Naphthylamine	91-59-8	7 U	7	21	1
14241	2-Nitroaniline	88-74-4	2 U	2	7	1
14241	3-Nitroaniline	99-09-2	3 U	3	7	1
14241	4-Nitroaniline	100-01-6	0.9 U	0.9	3	1
14241	Nitrobenzene	98-95-3	0.5 U	0.5	2	1
14241	2-Nitrophenol	88-75-5	3 U	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-EB-20 Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739855
ELLE Group #: 1973450
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 08:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	4-Nitrophenol	100-02-7	10 U	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	0.7 U	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	0.1 U	0.1	0.5	1
14241	Phenol	108-95-2	0.5 U	0.5	2	1
14241	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14241	o-Toluidine	95-53-4	4 U	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	0.5 U	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

The project QA/QC requirements were not met.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

11659 Targeted Library Search (SVOC)

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined at the end of the report.

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l
10602	Ethane	74-84-0	1.0 U	1.0
10602	Ethene	74-85-1	1.0 U	1.0
10602	Methane	74-82-8	3.0 U	3.0

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182272AA	08/15/2018 22:51	Kevin D Kelly	1
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182232AA	08/11/2018 17:06	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182232AA	08/11/2018 17:06	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	2	W182272AA	08/15/2018 22:51	Kevin D Kelly	1
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18219WAF026	08/14/2018 19:25	Ashley R Transue	1

*=This limit was used in the evaluation of the final result

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Sample Description: SPBGW2H18-EB-20 Groundwater
SC SPB WELL SAMPLING 2H18**The Chemours Company FC, LLC**
ELLE Sample #: WW 9739855
ELLE Group #: 1973450
Matrix: Groundwater**Project Name:** CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 08:00

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11010	8270D BNA Extraction	SW-846 3510C	1	18219WAF026	08/07/2018 10:00	Logan M Brosemer	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182200004A	08/08/2018 15:47	Johanna C Kennedy	1

*=This limit was used in the evaluation of the final result

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

! _____ !
! SC-08 !

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 9739855
Sample wt/vol: 249 (g/mL) mL Lab File ID: 1h1027.d
Level: (low/med) LOW Date Received: 08/06/18
% Moisture: Decanted: (Y/N) Date Extracted: 08/07/18
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/14/18
Injection Volume: 1 (uL) Dilution Factor: 1
GPC Cleanup: N pH: Extraction: Sepf

CONCENTRATION UNITS:

Number TICs found: 4 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 95-51-2	o-Chloroaniline			
2. 90-41-5	[1,1'-Biphenyl]-2-amine			
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
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26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

page 1 of 1

FORM I SV-1

Sample Description: SPBGW2H18-TB-20 Blank Water
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739856
ELLE Group #: 1973450
Matrix: Blank Water

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 08:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	6 U	6	20	1
11997	Benzene	71-43-2	0.5 U	0.5	1	1
11997	Bromodichloromethane	75-27-4	0.5 U	0.5	1	1
11997	Bromoform	75-25-2	0.5 U	0.5	4	1
11997	Bromomethane	74-83-9	0.5 U	0.5	1	1
11997	2-Butanone	78-93-3	3 U	3	10	1
11997	Carbon Disulfide	75-15-0	1 U	1	5	1
11997	Carbon Tetrachloride	56-23-5	0.5 U	0.5	1	1
11997	Chlorobenzene	108-90-7	0.5 U	0.5	1	1
11997	Chloroethane	75-00-3	0.5 U	0.5	1	1
11997	Chloroform	67-66-3	0.5 U	0.5	1	1
11997	Chloromethane	74-87-3	0.5 U	0.5	1	1
11997	Cyclohexane	110-82-7	2 U	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	2 U	2	5	1
11997	Dibromochloromethane	124-48-1	0.5 U	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	0.5 U	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	1 U	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	1 U	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	1 U	1	5	1
11997	Dichlorodifluoromethane	75-71-8	0.5 U	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	0.5 U	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	0.5 U	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	0.5 U	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	0.5 U	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	0.5 U	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	0.5 U	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	0.5 U	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	0.5 U	0.5	1	1
11997	Ethylbenzene	100-41-4	0.5 U	0.5	1	1
11997	Freon 113	76-13-1	2 U	2	10	1
11997	2-Hexanone	591-78-6	3 U	3	10	1
11997	Isopropylbenzene	98-82-8	1 U	1	5	1
11997	Methyl Acetate	79-20-9	1 U	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	0.5 U	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	3 U	3	10	1
11997	Methylcyclohexane	108-87-2	1 U	1	5	1
11997	Methylene Chloride	75-09-2	0.5 U	0.5	1	1
11997	Styrene	100-42-5	1 U	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	0.5 U	0.5	1	1
11997	Tetrachloroethene	127-18-4	0.5 U	0.5	1	1
11997	Toluene	108-88-3	0.5 U	0.5	1	1
11997	1,2,4-Trichlorobenzene	120-82-1	1 U	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-TB-20 Blank Water
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9739856
ELLE Group #: 1973450
Matrix: Blank Water

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/06/2018 18:22

Collection Date/Time: 08/06/2018 08:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	0.5 U	0.5	1	1
11997	Trichloroethene	79-01-6	0.5 U	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	0.5 U	0.5	1	1
11997	Vinyl Chloride	75-01-4	0.5 U	0.5	1	1
11997	m+p-Xylene	179601-23-1	0.5 U	0.5	1	1
11997	o-Xylene	95-47-6	0.5 U	0.5	1	1
11997	Xylene (Total)	1330-20-7	0.5 U	0.5	1	1

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane

GC/MS Volatiles	SW-846 8260C SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.2 U	0.2	0.4

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182272AA	08/15/2018 23:15	Kevin D Kelly	1
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182232AA	08/11/2018 17:26	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182232AA	08/11/2018 17:26	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	2	W182272AA	08/15/2018 23:15	Kevin D Kelly	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/27/2018 09:12

Group Number: 1973450

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result ug/l	MDL** ug/l	LOQ ug/l
Batch number: E182232AA 1,4-Dioxane	Sample number(s): 9739846-9739853,9739855-9739856 0.2 U	0.2	0.4
Batch number: E182271AA 1,4-Dioxane	Sample number(s): 9739854 0.2 U	0.2	0.4
Batch number: W182272AA Acetone	Sample number(s): 9739846-9739856 6 U	6	20
Benzene	0.5 U	0.5	1
Bromodichloromethane	0.5 U	0.5	1
Bromoform	0.5 U	0.5	4
Bromomethane	0.5 U	0.5	1
2-Butanone	3 U	3	10
Carbon Disulfide	1 U	1	5
Carbon Tetrachloride	0.5 U	0.5	1
Chlorobenzene	0.5 U	0.5	1
Chloroethane	0.5 U	0.5	1
Chloroform	0.5 U	0.5	1
Chloromethane	0.5 U	0.5	1
Cyclohexane	2 U	2	5
1,2-Dibromo-3-chloropropane	2 U	2	5
Dibromochloromethane	0.5 U	0.5	1
1,2-Dibromoethane	0.5 U	0.5	1
1,2-Dichlorobenzene	1 U	1	5
1,3-Dichlorobenzene	1 U	1	5
1,4-Dichlorobenzene	1 U	1	5
Dichlorodifluoromethane	0.5 U	0.5	1
1,1-Dichloroethane	0.5 U	0.5	1
1,2-Dichloroethane	0.5 U	0.5	1
1,1-Dichloroethene	0.5 U	0.5	1
cis-1,2-Dichloroethene	0.5 U	0.5	1
trans-1,2-Dichloroethene	0.5 U	0.5	1
1,2-Dichloropropane	0.5 U	0.5	1
cis-1,3-Dichloropropene	0.5 U	0.5	1
trans-1,3-Dichloropropene	0.5 U	0.5	1
Ethylbenzene	0.5 U	0.5	1
Freon 113	2 U	2	10
2-Hexanone	3 U	3	10
Isopropylbenzene	1 U	1	5
Methyl Acetate	1 U	1	5
Methyl Tertiary Butyl Ether	0.5 U	0.5	1

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control SummaryClient Name: The Chemours Company FC, LLC
Reported: 08/27/2018 09:12

Group Number: 1973450

Method Blank (continued)

Analysis Name	Result ug/l	MDL** ug/l	LOQ ug/l
4-Methyl-2-pentanone	3 U	3	10
Methylcyclohexane	1 U	1	5
Methylene Chloride	0.5 U	0.5	1
Styrene	1 U	1	5
1,1,2,2-Tetrachloroethane	0.5 U	0.5	1
Tetrachloroethene	0.5 U	0.5	1
Toluene	0.5 U	0.5	1
1,2,4-Trichlorobenzene	1 U	1	5
1,1,1-Trichloroethane	0.5 U	0.5	1
1,1,2-Trichloroethane	0.5 U	0.5	1
Trichloroethene	0.5 U	0.5	1
Trichlorofluoromethane	0.5 U	0.5	1
Vinyl Chloride	0.5 U	0.5	1
m+p-Xylene	0.5 U	0.5	1
o-Xylene	0.5 U	0.5	1
Xylene (Total)	0.5 U	0.5	1
Batch number: 18219WAF026	Sample number(s): 9739846-9739848,9739850-9739855		
Acenaphthene	0.1 U	0.1	0.5
Acenaphthylene	0.1 U	0.1	0.5
Acetophenone	4 U	4	10
4-Aminobiphenyl	5 U	5	11
Aniline	3 U	3	10
Anthracene	0.1 U	0.1	0.5
Atrazine	2 U	2	5
Benzaldehyde	3 U	3	10
Benzidine	20 U	20	60
Benzo(a)anthracene	0.1 U	0.1	0.5
Benzo(a)pyrene	0.1 U	0.1	0.5
Benzo(b)fluoranthene	0.1 U	0.1	0.5
Benzo(g,h,i)perylene	0.1 U	0.1	0.5
Benzo(k)fluoranthene	0.1 U	0.1	0.5
1,1'-Biphenyl	3 U	3	10
4-Bromophenyl-phenylether	0.5 U	0.5	2
Butylbenzylphthalate	2 U	2	5
Di-n-butylphthalate	2 U	2	5
Caprolactam	5 U	5	11
Carbazole	0.5 U	0.5	2
4-Chloro-3-methylphenol	0.5 U	0.5	2
4-Chloroaniline	4 U	4	10
bis(2-Chloroethoxy)methane	0.5 U	0.5	2
bis(2-Chloroethyl)ether	0.5 U	0.5	2
2-Chloronaphthalene	0.4 U	0.4	1
2-Chlorophenol	0.5 U	0.5	2
4-Chlorophenyl-phenylether	0.5 U	0.5	2

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control SummaryClient Name: The Chemours Company FC, LLC
Reported: 08/27/2018 09:12

Group Number: 1973450

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
2,2'-oxybis(1-Chloropropane)	0.5 U	0.5	2
Chrysene	0.1 U	0.1	0.5
Dibenzo(a,h)anthracene	0.1 U	0.1	0.5
Dibenzofuran	0.5 U	0.5	2
3,3'-Dichlorobenzidine	3 U	3	10
2,4-Dichlorophenol	0.5 U	0.5	2
Diethylphthalate	2 U	2	5
2,4-Dimethylphenol	3 U	3	10
Dimethylphthalate	2 U	2	5
4,6-Dinitro-2-methylphenol	8 U	8	21
2,4-Dinitrophenol	14 U	14	30
2,4-Dinitrotoluene	1 U	1	5
2,6-Dinitrotoluene	0.5 U	0.5	2
Diphenyl ether	0.5 U	0.5	2
1,2-Diphenylhydrazine	0.5 U	0.5	2
bis(2-Ethylhexyl)phthalate	5 U	5	11
Fluoranthene	0.1 U	0.1	0.5
Fluorene	0.1 U	0.1	0.5
Hexachlorobenzene	0.1 U	0.1	0.5
Hexachlorobutadiene	0.5 U	0.5	2
Hexachlorocyclopentadiene	5 U	5	11
Hexachloroethane	1 U	1	5
Indeno(1,2,3-cd)pyrene	0.1 U	0.1	0.5
Isophorone	0.5 U	0.5	2
2-Methylnaphthalene	0.1 U	0.1	0.5
2-Methylphenol	0.5 U	0.5	2
4-Methylphenol	0.5 U	0.5	2
Naphthalene	0.1 U	0.1	0.5
1-Naphthylamine	8 U	8	21
2-Naphthylamine	7 U	7	21
2-Nitroaniline	2 U	2	7
3-Nitroaniline	3 U	3	7
4-Nitroaniline	0.9 U	0.9	3
Nitrobenzene	0.5 U	0.5	2
2-Nitrophenol	3 U	3	10
4-Nitrophenol	10 U	10	30
N-Nitroso-di-n-propylamine	0.7 U	0.7	3
N-Nitrosodiphenylamine	0.7 U	0.7	3
Di-n-octylphthalate	5 U	5	11
Pentachlorophenol	1 U	1	5
Phenanthrene	0.1 U	0.1	0.5
Phenol	0.5 U	0.5	2
Pyrene	0.1 U	0.1	0.5
o-Toluidine	4 U	4	10
2,4,5-Trichlorophenol	0.5 U	0.5	2

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control SummaryClient Name: The Chemours Company FC, LLC
Reported: 08/27/2018 09:12

Group Number: 1973450

Method Blank (continued)

Analysis Name	Result ug/l	MDL** ug/l	LOQ ug/l
2,4,6-Trichlorophenol	0.5 U	0.5	2
Batch number: 18223WAZ026	Sample number(s): 9739849		
Acenaphthene	0.1 U	0.1	0.5
Acenaphthylene	0.1 U	0.1	0.5
Acetophenone	4 U	4	10
4-Aminobiphenyl	5 U	5	11
Aniline	3 U	3	10
Anthracene	0.1 U	0.1	0.5
Atrazine	2 U	2	5
Benzaldehyde	3 U	3	10
Benzidine	20 U	20	60
Benzo(a)anthracene	0.1 U	0.1	0.5
Benzo(a)pyrene	0.1 U	0.1	0.5
Benzo(b)fluoranthene	0.1 U	0.1	0.5
Benzo(g,h,i)perylene	0.1 U	0.1	0.5
Benzo(k)fluoranthene	0.1 U	0.1	0.5
1,1'-Biphenyl	3 U	3	10
4-Bromophenyl-phenylether	0.5 U	0.5	2
Butylbenzylphthalate	2 U	2	5
Di-n-butylphthalate	2 U	2	5
Caprolactam	5 U	5	11
Carbazole	0.5 U	0.5	2
4-Chloro-3-methylphenol	0.5 U	0.5	2
4-Chloroaniline	4 U	4	10
bis(2-Chloroethoxy)methane	0.5 U	0.5	2
bis(2-Chloroethyl)ether	0.5 U	0.5	2
2-Chloronaphthalene	0.4 U	0.4	1
2-Chlorophenol	0.5 U	0.5	2
4-Chlorophenyl-phenylether	0.5 U	0.5	2
2,2'-oxybis(1-Chloropropane)	0.5 U	0.5	2
Chrysene	0.1 U	0.1	0.5
Dibenz(a,h)anthracene	0.1 U	0.1	0.5
Dibenzofuran	0.5 U	0.5	2
3,3'-Dichlorobenzidine	3 U	3	10
2,4-Dichlorophenol	0.5 U	0.5	2
Diethylphthalate	2 U	2	5
2,4-Dimethylphenol	3 U	3	10
Dimethylphthalate	2 U	2	5
4,6-Dinitro-2-methylphenol	8 U	8	21
2,4-Dinitrophenol	14 U	14	30
2,4-Dinitrotoluene	1 U	1	5
2,6-Dinitrotoluene	0.5 U	0.5	2
Diphenyl ether	0.5 U	0.5	2
1,2-Diphenylhydrazine	0.5 U	0.5	2

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/27/2018 09:12

Group Number: 1973450

Method Blank (continued)

Analysis Name	Result ug/l	MDL**	LOQ
		ug/l	ug/l
bis(2-Ethylhexyl)phthalate	5 U	5	11
Fluoranthene	0.1 U	0.1	0.5
Fluorene	0.1 U	0.1	0.5
Hexachlorobenzene	0.1 U	0.1	0.5
Hexachlorobutadiene	0.5 U	0.5	2
Hexachlorocyclopentadiene	5 U	5	11
Hexachloroethane	1 U	1	5
Indeno(1,2,3-cd)pyrene	0.1 U	0.1	0.5
Isophorone	0.5 U	0.5	2
2-Methylnaphthalene	0.1 U	0.1	0.5
2-Methylphenol	0.5 U	0.5	2
4-Methylphenol	0.5 U	0.5	2
Naphthalene	0.1 U	0.1	0.5
1-Naphthylamine	8 U	8	21
2-Naphthylamine	7 U	7	21
2-Nitroaniline	2 U	2	7
3-Nitroaniline	3 U	3	7
4-Nitroaniline	0.9 U	0.9	3
Nitrobenzene	0.5 U	0.5	2
2-Nitrophenol	3 U	3	10
4-Nitrophenol	10 U	10	30
N-Nitroso-di-n-propylamine	0.7 U	0.7	3
N-Nitrosodiphenylamine	0.7 U	0.7	3
Di-n-octylphthalate	5 U	5	11
Pentachlorophenol	1 U	1	5
Phenanthrene	0.1 U	0.1	0.5
Phenol	0.5 U	0.5	2
Pyrene	0.1 U	0.1	0.5
o-Toluidine	4 U	4	10
2,4,5-Trichlorophenol	0.5 U	0.5	2
2,4,6-Trichlorophenol	0.5 U	0.5	2
Batch number: 182200004A	Sample number(s): 9739846-9739855		
Ethane	1.0 U	1.0	5.0
Ethene	1.0 U	1.0	5.0
Methane	3.0 U	3.0	5.0

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/27/2018 09:12

Group Number: 1973450

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: E182232AA 1,4-Dioxane	5.00	5.24			105		80-130		
Batch number: E182271AA 1,4-Dioxane	5.00	5.23	5.00	5.18	105	104	80-130	1	30
Batch number: W182272AA Acetone	150	120.06			80		60-140		
Benzene	20	19.81			99		70-130		
Bromodichloromethane	20	19.23			96		70-130		
Bromoform	20	16.55			83		70-130		
Bromomethane	20	16.62			83		60-140		
2-Butanone	150	149.31			100		60-140		
Carbon Disulfide	20	15.69			78		60-140		
Carbon Tetrachloride	20	21.3			107		70-130		
Chlorobenzene	20	19.05			95		70-130		
Chloroethane	20	16.44			82		60-140		
Chloroform	20	19.53			98		70-130		
Chloromethane	20	14.88			74		60-140		
Cyclohexane	20	16.8			84		70-130		
1,2-Dibromo-3-chloropropane	20	19.21			96		60-140		
Dibromochloromethane	20	18.76			94		70-130		
1,2-Dibromoethane	20	18.96			95		70-130		
1,2-Dichlorobenzene	20	18.82			94		70-130		
1,3-Dichlorobenzene	20	18.91			95		70-130		
1,4-Dichlorobenzene	20	18.85			94		70-130		
Dichlorodifluoromethane	20	13.04			65		60-140		
1,1-Dichloroethane	20	19.52			98		70-130		
1,2-Dichloroethane	20	18.72			94		70-130		
1,1-Dichloroethene	20	19.83			99		70-130		
cis-1,2-Dichloroethene	20	19.78			99		70-130		
trans-1,2-Dichloroethene	20	19.32			97		70-130		
1,2-Dichloropropane	20	20.45			102		70-130		
cis-1,3-Dichloropropene	20	19.43			97		70-130		
trans-1,3-Dichloropropene	20	18.8			94		70-130		
Ethylbenzene	20	19.17			96		70-130		
Freon 113	20	14.97			75		70-130		
2-Hexanone	100	95.86			96		60-140		
Isopropylbenzene	20	19.05			95		70-130		
Methyl Acetate	20	20.43			102		70-130		
Methyl Tertiary Butyl Ether	20	16.72			84		70-130		
4-Methyl-2-pentanone	100	100.76			101		60-140		
Methylcyclohexane	20	17.53			88		70-130		
Methylene Chloride	20	20.55			103		70-130		
Styrene	20	18.74			94		70-130		

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/27/2018 09:12

Group Number: 1973450

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1,2,2-Tetrachloroethane	20	19.61			98		70-130		
Tetrachloroethene	20	19.61			98		70-130		
Toluene	20	19.38			97		70-130		
1,2,4-Trichlorobenzene	20	19.5			98		70-130		
1,1,1-Trichloroethane	20	19.16			96		70-130		
1,1,2-Trichloroethane	20	19.81			99		70-130		
Trichloroethene	20	18.84			94		70-130		
Trichlorofluoromethane	20	16.59			83		60-140		
Vinyl Chloride	20	14.25			71		70-130		
m+p-Xylene	40	38.6			97		70-130		
o-Xylene	20	18.09			90		70-130		
Xylene (Total)	60	56.69			94		70-130		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 18219WAF026		Sample number(s): 9739846-9739848,9739850-9739855							
Acenaphthene	50	45.13			90		70-130		
Acenaphthylene	50	46.71			93		70-130		
Acetophenone	50	43.79			88		70-130		
4-Aminobiphenyl	50	39.92			80		70-130		
Aniline	50	31.14			62		20-160		
Anthracene	50	45.66			91		70-130		
Atrazine	50	46.91			94		70-130		
Benzaldehyde	50	41.51			83		20-160		
Benzidine	250	20 U			0*		20-160		
Benzo(a)anthracene	50	48.57			97		70-130		
Benzo(a)pyrene	50	48.54			97		70-130		
Benzo(b)fluoranthene	50	48.38			97		70-130		
Benzo(g,h,i)perylene	50	42.65			85		70-130		
Benzo(k)fluoranthene	50	48.33			97		70-130		
1,1'-Biphenyl	50	42.43			85		70-130		
4-Bromophenyl-phenylether	50	45.16			90		70-130		
Butylbenzylphthalate	50	44.66			89		70-130		
Di-n-butylphthalate	50	47.71			95		70-130		
Caprolactam	50	16.18			32		20-160		
Carbazole	50	48.79			98		70-130		
4-Chloro-3-methylphenol	50	46.8			94		70-130		
4-Chloroaniline	50	35.57			71		70-130		
bis(2-Chloroethoxy)methane	50	43.19			86		70-130		
bis(2-Chloroethyl)ether	50	42.45			85		70-130		
2-Chloronaphthalene	50	39.57			79		70-130		
2-Chlorophenol	50	42.32			85		20-160		
4-Chlorophenyl-phenylether	50	43.73			87		70-130		
2,2'-oxybis(1-Chloropropane)	50	42.28			85		70-130		
Chrysene	50	47.71			95		70-130		

*- Outside of specification

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/27/2018 09:12

Group Number: 1973450

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenz(a,h)anthracene	50	47.3			95		70-130		
Dibenzo furan	50	43.96			88		70-130		
3,3'-Dichlorobenzidine	50	38.85			78		70-130		
2,4-Dichlorophenol	50	45.8			92		70-130		
Diethylphthalate	50	43.2			86		70-130		
2,4-Dimethylphenol	50	36.49			73		70-130		
Dimethylphthalate	50	35.59			71		70-130		
4,6-Dinitro-2-methylphenol	50	48.68			97		70-130		
2,4-Dinitrophenol	100	94.58			95		20-160		
2,4-Dinitrotoluene	50	46.45			93		70-130		
2,6-Dinitrotoluene	50	47.28			95		70-130		
Diphenyl ether	50	40.72			81		70-130		
1,2-Diphenylhydrazine	50	46.48			93		70-130		
bis(2-Ethylhexyl)phthalate	50	48.44			97		70-130		
Fluoranthene	50	49.98			100		70-130		
Fluorene	50	44.35			89		70-130		
Hexachlorobenzene	50	45.09			90		70-130		
Hexachlorobutadiene	50	34.06			68*		70-130		
Hexachlorocyclopentadiene	100	44.53			45		20-160		
Hexachloroethane	50	32.59			65		20-160		
Indeno(1,2,3-cd)pyrene	50	44.86			90		70-130		
Isophorone	50	45.82			92		70-130		
2-Methylnaphthalene	50	41.1			82		70-130		
2-Methylphenol	50	42.83			86		70-130		
4-Methylphenol	50	40.74			81		20-160		
Naphthalene	50	39.24			78		70-130		
1-Naphthylamine	100	49.17			49*		70-130		
2-Naphthylamine	100	38.87			39*		70-130		
2-Nitroaniline	50	47.47			95		70-130		
3-Nitroaniline	50	47.04			94		70-130		
4-Nitroaniline	50	41.25			82		70-130		
Nitrobenzene	50	42.24			84		70-130		
2-Nitrophenol	50	46.19			92		70-130		
4-Nitrophenol	50	38.34			77		20-160		
N-Nitroso-di-n-propylamine	50	44.85			90		70-130		
N-Nitrosodiphenylamine	50	46.68			93		70-130		
Di-n-octylphthalate	50	47.4			95		70-130		
Pentachlorophenol	50	53.21			106		20-160		
Phenanthrene	50	44.63			89		70-130		
Phenol	50	28.63			57		20-160		
Pyrene	50	46.55			93		70-130		
o-Toluidine	50	31.19			62*		70-130		
2,4,5-Trichlorophenol	50	50.91			102		70-130		
2,4,6-Trichlorophenol	50	47.06			94		70-130		

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/27/2018 09:12

Group Number: 1973450

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 18223WAZ026		Sample number(s): 9739849							
Acenaphthene	50	47.57			95		70-130		
Acenaphthylene	50	49.07			98		70-130		
Acetophenone	50	44.33			89		70-130		
4-Aminobiphenyl	50	29.3			59*		70-130		
Aniline	50	25.35			51		20-160		
Anthracene	50	49.95			100		70-130		
Benzidine	250	6.72			3*		20-160		
Benzo(a)anthracene	50	52.42			105		70-130		
Benzo(a)pyrene	50	52.13			104		70-130		
Benzo(b)fluoranthene	50	50.89			102		70-130		
Benzo(g,h,i)perylene	50	42.19			84		70-130		
Benzo(k)fluoranthene	50	50.73			101		70-130		
1,1'-Biphenyl	50	44.78			90		70-130		
4-Bromophenyl-phenylether	50	46.69			93		70-130		
Butylbenzylphthalate	50	47.55			95		70-130		
Di-n-butylphthalate	50	50.49			101		70-130		
Carbazole	50	51.7			103		70-130		
4-Chloro-3-methylphenol	50	51.04			102		70-130		
4-Chloroaniline	50	28.68			57*		70-130		
bis(2-Chloroethoxy)methane	50	45.81			92		70-130		
bis(2-Chloroethyl)ether	50	43.83			88		70-130		
2-Chloronaphthalene	50	43.49			87		70-130		
2-Chlorophenol	50	44.52			89		20-160		
4-Chlorophenyl-phenylether	50	47.51			95		70-130		
2,2'-oxybis(1-Chloropropane)	50	41.51			83		70-130		
Chrysene	50	50.61			101		70-130		
Dibenz(a,h)anthracene	50	45.48			91		70-130		
Dibenzofuran	50	46.99			94		70-130		
3,3'-Dichlorobenzidine	50	37.85			76		70-130		
2,4-Dichlorophenol	50	47.24			94		70-130		
Diethylphthalate	50	43.05			86		70-130		
2,4-Dimethylphenol	50	36.71			73		70-130		
Dimethylphthalate	50	38.49			77		70-130		
4,6-Dinitro-2-methylphenol	50	48.75			98		70-130		
2,4-Dinitrophenol	100	107.78			108		20-160		
2,4-Dinitrotoluene	50	48.29			97		70-130		
2,6-Dinitrotoluene	50	48.51			97		70-130		
Diphenyl ether	50	43.8			88		70-130		
1,2-Diphenylhydrazine	50	45.72			91		70-130		
bis(2-Ethylhexyl)phthalate	50	50.97			102		70-130		
Fluoranthene	50	49.62			99		70-130		
Fluorene	50	48.08			96		70-130		

*- Outside of specification

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/27/2018 09:12

Group Number: 1973450

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachlorobenzene	50	45.99			92		70-130		
Hexachlorobutadiene	50	41.27			83		70-130		
Hexachlorocyclopentadiene	100	51.41			51		20-160		
Hexachloroethane	50	36.65			73		20-160		
Indeno(1,2,3-cd)pyrene	50	42.55			85		70-130		
Isophorone	50	45.47			91		70-130		
2-Methylnaphthalene	50	44.17			88		70-130		
2-Methylphenol	50	41.81			84		70-130		
4-Methylphenol	50	38.91			78		20-160		
Naphthalene	50	43.54			87		70-130		
1-Naphthylamine	100	36.85			37*		70-130		
2-Naphthylamine	100	27.51			28*		70-130		
2-Nitroaniline	50	49.41			99		70-130		
3-Nitroaniline	50	41.05			82		70-130		
4-Nitroaniline	50	43.45			87		70-130		
Nitrobenzene	50	42.23			84		70-130		
2-Nitrophenol	50	45.69			91		70-130		
4-Nitrophenol	50	33.53			67		20-160		
N-Nitroso-di-n-propylamine	50	44.55			89		70-130		
N-Nitrosodiphenylamine	50	46.18			92		70-130		
Di-n-octylphthalate	50	50.28			101		70-130		
Pentachlorophenol	50	53.74			107		20-160		
Phenanthere	50	47.12			94		70-130		
Phenol	50	26.79			54		20-160		
Pyrene	50	47.22			94		70-130		
o-Toluidine	50	24.09			48*		70-130		
2,4,5-Trichlorophenol	50	51.05			102		70-130		
2,4,6-Trichlorophenol	50	48.21			96		70-130		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 182200004A		Sample number(s): 9739846-9739855							
Ethane	58.44	55			94		85-115		
Ethene	60.85	56.22			92		83-115		
Methane	59.83	57.22			96		85-115		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
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*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/27/2018 09:12

Group Number: 1973450

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: E182232AA 1,4-Dioxane	0.2 U	5.00	4.53	5.00	5.05	91	101	80-130	11	30
Batch number: W182272AA Acetone	6 U	150	128.61	150	129.07	86	86	60-140	0	20
Benzene	0.5 U	20	21.55	20	21.51	108	108	70-130	0	20
Bromodichloromethane	0.5 U	20	19.48	20	19.6	97	98	70-130	1	20
Bromoform	0.5 U	20	17.18	20	17.43	86	87	70-130	1	20
Bromomethane	0.5 U	20	16.84	20	17.83	84	89	60-140	6	20
2-Butanone	3 U	150	139.72	150	140.15	93	93	60-140	0	20
Carbon Disulfide	1 U	20	19.72	20	20.33	99	102	60-140	3	20
Carbon Tetrachloride	0.5 U	20	24.68	20	24.45	123	122	70-130	1	20
Chlorobenzene	0.5 U	20	19.95	20	19.81	100	99	70-130	1	20
Chloroethane	0.5 U	20	16.12	20	17.72	81	89	60-140	9	20
Chloroform	0.5 U	20	20.85	20	20.79	104	104	70-130	0	20
Chloromethane	0.5 U	20	15.44	20	16.18	77	81	60-140	5	20
Cyclohexane	2 U	20	23.6	20	23.76	118	119	70-130	1	20
1,2-Dibromo-3-chloropropane	2 U	20	17.37	20	18.13	87	91	60-140	4	20
Dibromochloromethane	0.5 U	20	19.01	20	19.02	95	95	70-130	0	20
1,2-Dibromoethane	0.5 U	20	18.62	20	19	93	95	70-130	2	20
1,2-Dichlorobenzene	1 U	20	17.63	20	19.21	88	96	70-130	9	20
1,3-Dichlorobenzene	1 U	20	19.22	20	19.72	96	99	70-130	3	20
1,4-Dichlorobenzene	1 U	20	19.33	20	19.46	97	97	70-130	1	20
Dichlorodifluoromethane	0.5 U	20	18.56	20	18.3	93	92	60-140	1	20
1,1-Dichloroethane	0.5 U	20	20.49	20	21.19	102	106	70-130	3	20
1,2-Dichloroethane	0.5 U	20	19.19	20	19.35	96	97	70-130	1	20
1,1-Dichloroethene	0.5 U	20	24.27	20	24.25	121	121	70-130	0	20
cis-1,2-Dichloroethene	0.5 U	20	21.73	20	21.7	109	108	70-130	0	20
trans-1,2-Dichloroethene	0.5 U	20	21.96	20	22.14	110	111	70-130	1	20
1,2-Dichloropropane	0.5 U	20	21.68	20	21.72	108	109	70-130	0	20
cis-1,3-Dichloropropene	0.5 U	20	19.53	20	19.64	98	98	70-130	1	20
trans-1,3-Dichloropropene	0.5 U	20	18.78	20	18.94	94	95	70-130	1	20
Ethylbenzene	0.5 U	20	20.46	20	20.71	102	104	70-130	1	20
Freon 113	2 U	20	22.79	20	23.13	114	116	70-130	1	20
2-Hexanone	3 U	100	93.1	100	94.17	93	94	60-140	1	20
Isopropylbenzene	1 U	20	20.41	20	20.57	102	103	70-130	1	20
Methyl Acetate	1 U	20	19.74	20	19.65	99	98	70-130	0	20
Methyl Tertiary Butyl Ether	0.5 U	20	16.36	20	17.86	82	89	70-130	9	20
4-Methyl-2-pentanone	3 U	100	99.88	100	99.37	100	99	60-140	1	20
Methylcyclohexane	1 U	20	24.77	20	25.12	124	126	70-130	1	20
Methylene Chloride	0.5 U	20	22.51	20	22.77	113	114	70-130	1	20
Styrene	1 U	20	19.66	20	19.67	98	98	70-130	0	20
1,1,2,2-Tetrachloroethane	0.5 U	20	18.14	20	18.26	91	91	70-130	1	20

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/27/2018 09:12

Group Number: 1973450

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l	ug/l					
Tetrachloroethene	0.5 U	20	21.41	20	21.74	107	109	70-130	2	20
Toluene	0.5 U	20	20.23	20	20.56	101	103	70-130	2	20
1,2,4-Trichlorobenzene	1 U	20	16.82	20	18.12	84	91	70-130	7	20
1,1,1-Trichloroethane	0.5 U	20	21.04	20	20.91	105	105	70-130	1	20
1,1,2-Trichloroethane	0.5 U	20	19.54	20	19.83	98	99	70-130	1	20
Trichloroethene	0.5 U	20	20.77	20	20.81	104	104	70-130	0	20
Trichlorofluoromethane	0.5 U	20	20.31	20	20.56	102	103	60-140	1	20
Vinyl Chloride	0.5 U	20	16.06	20	16.01	80	80	70-130	0	20
m+p-Xylene	0.5 U	40	40.67	40	40.71	102	102	70-130	0	20
o-Xylene	0.5 U	20	19.19	20	19.33	96	97	70-130	1	20
Xylene (Total)	0.5 U	60	59.87	60	60.04	100	100	70-130	0	20
Batch number: 18219WAF026	Sample number(s): 9739846-9739848, 9739850-9739855 UNSPK: 9739850									
Acenaphthene	0.1 U	50.2	43.24	50.4	43.48	86	86	70-130	1	20
Acenaphthylene	0.1 U	50.2	44.1	50.4	44.63	88	89	70-130	1	20
Acetophenone	4 U	50.2	43.15	50.4	38.39	86	76	70-130	12	20
4-Aminobiphenyl	5 U	50.2	32.53	50.4	31.33	65*	62*	70-130	4	20
Aniline	3 U	50.2	20.63	50.4	19.21	41	38	20-160	7	20
Anthracene	0.1 U	50.2	42.85	50.4	43.15	85	86	70-130	1	20
Atrazine	2 U	50.2	43.73	50.4	43.29	87	86	70-130	1	20
Benzaldehyde	3 U	50.2	41.2	50.4	35.78	82	71	20-160	14	20
Benzidine	21 U	251	20 U	252.02	20 U	0*	0*	20-160	0	20
Benzo(a)anthracene	0.1 U	50.2	42.58	50.4	44.25	85	88	70-130	4	20
Benzo(a)pyrene	0.1 U	50.2	39.32	50.4	42.1	78	84	70-130	7	20
Benzo(b)fluoranthene	0.1 U	50.2	39.38	50.4	40.79	78	81	70-130	4	20
Benzo(g,h,i)perylene	0.1 U	50.2	27.22	50.4	38.17	54*	76	70-130	34*	20
Benzo(k)fluoranthene	0.1 U	50.2	39.99	50.4	42.65	80	85	70-130	6	20
1,1'-Biphenyl	3 U	50.2	40.09	50.4	41.48	80	82	70-130	3	20
4-Bromophenyl-phenylether	0.5 U	50.2	42.13	50.4	41.55	84	82	70-130	1	20
Butylbenzylphthalate	2 U	50.2	41.1	50.4	41.99	82	83	70-130	2	20
Di-n-butylphthalate	2 U	50.2	44.55	50.4	41.55	89	82	70-130	7	20
Caprolactam	5 U	50.2	13.33	50.4	12.93	27	26	20-160	3	20
Carbazole	0.5 U	50.2	46.86	50.4	45.12	93	90	70-130	4	20
4-Chloro-3-methylphenol	0.5 U	50.2	40.97	50.4	42.67	82	85	70-130	4	20
4-Chloroaniline	4 U	50.2	25.24	50.4	24.97	50*	50*	70-130	1	20
bis(2-Chloroethoxy)methane	0.5 U	50.2	43.26	50.4	41.31	86	82	70-130	5	20
bis(2-Chloroethyl)ether	0.5 U	50.2	41.59	50.4	35.6	83	71	70-130	16	20
2-Chloronaphthalene	0.4 U	50.2	39.37	50.4	40.44	78	80	70-130	3	20
2-Chlorophenol	0.5 U	50.2	35.68	50.4	34.15	71	68	20-160	4	20
4-Chlorophenyl-phenylether	0.5 U	50.2	41.87	50.4	41.25	83	82	70-130	2	20
2,2'-oxybis(1-Chloropropane)	0.5 U	50.2	42.84	50.4	34.21	85	68*	70-130	22*	20
Chrysene	0.1 U	50.2	41.21	50.4	42.59	82	85	70-130	3	20

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Quality Control Summary

Client Name: The Chemours Company FC, LLC

Group Number: 1973450

Reported: 08/27/2018 09:12

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Dibenz(a,h)anthracene	0.1 U	50.2	31.09	50.4	39.72	62*	79	70-130	24*	20
Dibenzo-furan	0.5 U	50.2	41.71	50.4	42.56	83	84	70-130	2	20
3,3'-Dichlorobenzidine	3 U	50.2	28.1	50.4	34	56*	67*	70-130	19	20
2,4-Dichlorophenol	0.5 U	50.2	39.26	50.4	40.92	78	81	70-130	4	20
Diethylphthalate	2 U	50.2	41.73	50.4	38.94	83	77	70-130	7	20
2,4-Dimethylphenol	3 U	50.2	32.32	50.4	33.56	64*	67*	70-130	4	20
Dimethylphthalate	2 U	50.2	34.55	50.4	41.01	69*	81	70-130	17	20
4,6-Dinitro-2-methylphenol	8 U	50.2	43.95	50.4	46.86	88	93	70-130	6	20
2,4-Dinitrophenol	14 U	100.4	85.37	100.81	99.4	85	99	20-160	15	20
2,4-Dinitrotoluene	1 U	50.2	41.38	50.4	44.82	82	89	70-130	8	20
2,6-Dinitrotoluene	0.5 U	50.2	43.99	50.4	43.79	88	87	70-130	0	20
Diphenyl ether	0.5 U	50.2	39.13	50.4	40.68	78	81	70-130	4	20
1,2-Diphenylhydrazine	0.5 U	50.2	45.36	50.4	40.73	90	81	70-130	11	20
bis(2-Ethylhexyl)phthalate	5 U	50.2	38.68	50.4	38.93	77	77	70-130	1	20
Fluoranthene	0.1 U	50.2	44.44	50.4	44.22	89	88	70-130	0	20
Fluorene	0.1 U	50.2	42.88	50.4	43.19	85	86	70-130	1	20
Hexachlorobenzene	0.1 U	50.2	40.61	50.4	37.49	81	74	70-130	8	20
Hexachlorobutadiene	0.5 U	50.2	33.15	50.4	32.65	66*	65*	70-130	2	20
Hexachlorocyclopentadiene	5 U	100.4	52.77	100.81	63.34	53	63	20-160	18	20
Hexachloroethane	1 U	50.2	32.74	50.4	30.02	65	60	20-160	9	20
Indeno(1,2,3-cd)pyrene	0.1 U	50.2	29.83	50.4	38.29	59*	76	70-130	25*	20
Isophorone	0.5 U	50.2	45.27	50.4	40.63	90	81	70-130	11	20
2-Methylnaphthalene	0.1 U	50.2	39.9	50.4	39.88	79	79	70-130	0	20
2-Methylphenol	0.5 U	50.2	35.05	50.4	34.6	70	69*	70-130	1	20
4-Methylphenol	0.5 U	50.2	32.75	50.4	31.9	65	63	20-160	3	20
Naphthalene	0.1 U	50.2	38.55	50.4	37.7	77	75	70-130	2	20
1-Naphthylamine	8 U	100.4	33.38	100.81	29.14	33*	29*	70-130	14	20
2-Naphthylamine	7 U	100.4	26.93	100.81	24.22	27*	24*	70-130	11	20
2-Nitroaniline	2 U	50.2	51.21	50.4	45.93	102	91	70-130	11	20
3-Nitroaniline	3 U	50.2	40.21	50.4	34.57	80	69*	70-130	15	20
4-Nitroaniline	0.9 U	50.2	43.23	50.4	38.55	86	76	70-130	11	20
Nitrobenzene	0.5 U	50.2	42.15	50.4	37.99	84	75	70-130	10	20
2-Nitrophenol	3 U	50.2	40.81	50.4	43.02	81	85	70-130	5	20
4-Nitrophenol	10 U	50.2	28.79	50.4	33.14	57	66	20-160	14	20
N-Nitroso-di-n-propylamine	0.7 U	50.2	44.36	50.4	38.5	88	76	70-130	14	20
N-Nitrosodiphenylamine	0.7 U	50.2	44.92	50.4	45.72	89	91	70-130	2	20
Di-n-octylphthalate	5 U	50.2	37.74	50.4	39.07	75	78	70-130	3	20
Pentachlorophenol	1 U	50.2	44.89	50.4	43.17	89	86	20-160	4	20
Phenanthrene	0.1 U	50.2	41.41	50.4	42.36	82	84	70-130	2	20
Phenol	0.5 U	50.2	23.27	50.4	21.56	46	43	20-160	8	20
Pyrene	0.1 U	50.2	42.59	50.4	43.6	85	87	70-130	2	20
o-Toluidine	4 U	50.2	22.04	50.4	20.73	44*	41*	70-130	6	20
2,4,5-Trichlorophenol	0.5 U	50.2	42.18	50.4	45.69	84	91	70-130	8	20

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/27/2018 09:12

Group Number: 1973450

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
2,4,6-Trichlorophenol	0.5 U ug/l	50.2 ug/l	38.92 ug/l	50.4 ug/l	42.63 ug/l	78	85	70-130	9	20
Batch number: 182200004A	Sample number(s): 9739846-9739855 UNSPK: 9739850									
Ethane	1.0 U	58.44	54.53	58.44	54.97	93	94	74-131	1	30
Ethene	1.0 U	60.85	58.47	60.85	59.01	96	97	72-133	1	30
Methane	64.78	59.83	114.43	59.83	120.96	83	94	73-125	6	30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1,4-Dioxane

Batch number: E182232AA

Toluene-d8

9739846	90
9739847	89
9739848	90
9739849	90
9739850	91
9739851	91
9739852	91
9739853	90
9739855	90
9739856	90
Blank	91
LCS	92
MS	91
MSD	91

Limits: 80-120

Analysis Name: 1,4-Dioxane

Batch number: E182271AA

Toluene-d8

9739854	97
Blank	98
LCS	98
LCSD	98

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/27/2018 09:12

Group Number: 1973450

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1,4-Dioxane
Batch number: E182271AA

Limits: 80-120

Analysis Name: NJ SOM02.2 VOAs
Batch number: W182272AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9739846	100	104	94	98
9739847	99	101	95	101
9739848	100	104	96	96
9739849	101	103	96	96
9739850	102	103	96	96
9739851	100	102	98	101
9739852	99	97	99	102
9739853	100	101	96	95
9739854	101	101	95	100
9739855	100	104	97	93
9739856	101	102	96	93
Blank	101	102	96	95
LCS	100	100	99	101
MS	100	102	98	101
MSD	99	97	99	102

Limits: 70-130 70-130 70-130 70-130

Analysis Name: NJ SOM02.2 SVs + Add'l Cmpds
Batch number: 18219WAF026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9739846	31	33	73	62	66	80
9739847	34	39	85	69	71	84
9739848	40	39	83	74	76	83
9739850	28	34	76	69	70	77
9739851	43	51	79	81	77	61
9739852	41	49	76	74	78	67
9739853	26	35	69	72	79	89
9739854	26	22	72	46	60	82
9739855	30	41	69	71	73	90
Blank	36	49	89	78	77	101
LCS	51	65	95	82	82	95
MS	43	51	79	81	77	61
MSD	41	49	76	74	78	67

Limits: 15-110 15-110 15-110 30-130 30-130 30-130

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/27/2018 09:12

Group Number: 1973450

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NJ SOM02.2 SVs + Add'l Cmpds

Batch number: 18223WAZ026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9739849	37	42	88	74	80	87
Blank	31	43	79	70	72	93
LCS	46	61	98	79	82	93
Limits:	15-110	15-110	15-110	30-130	30-130	30-130

Analysis Name: Dissolved Gases (3)

Batch number: 182200004A

Propene

9739846	83
9739847	84
9739848	83
9739849	83
9739850	87
9739851	87
9739852	86
9739853	90
9739854	86
9739855	93
Blank	97
LCS	95
MS	87
MSD	86

Limits: 57-128

*- Outside of specification

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Lancaster
Laboratories

Analysis Request / Environmental Services Chain of Custody

1 of 1

For Eurofins Lancaster Laboratories Use Only

Group No.: 1973450 Sample Nos.: 9739846-56

Acc't: 07032 SF: 286028 SCR No.: 228432

Cooler No.: _____

Cooler Temperature upon receipt: 3.5 °C Container No.: 1 38985

Facility Name: Chambers Works		Project Manager: Tom McGee					Analyses Required						Comments:		
Facility Contact: Tom McGee		Facility Contact Phone No.: 856-540-2402											DKQP		
Facility Address: Chambers Works Plant		Job No.: 77201000-WH06507141													
Rt 130 & Canal Road		Release No.:													
Deepwater NJ 08023		PO Number: LBIO-67047													
Sampler(s): <u>J. GOMES, A. Treglia, B. Ammerman</u>															
Sample Identification		Date Collected	Time Collected	Matrix	Containers									Condition upon receipt: <u>In tact</u>	
					Volume (ml)	Preserv	No.	Methane, Ethane, Ethene	TCL Volatiles (8260C)	1,4-Dioxane (8260C SIM)					
SPBGW2H18-H05-M02B		<u>8-6-18</u>	<u>1036</u>	WW	40	HCl	8	X	X	X					
SPBGW2H18-I05-M03B			<u>0944</u>	WW	40	HCl	8	X	X	X					
SPBGW2H18-F05-M03B			<u>1131</u>	WW	40	HCl	8	X	X	X					
SPBGW2H18-G04-M02B			<u>1224</u>	WW	40	HCl	8	X	X	X					
SPBGW2H18-H04-M02B			<u>1312</u>	WW	40	HCl	8	X	X	X					
SPBGW2H18-H04-M02B				WW	40	HCl	8	X	X	X				MS	
SPBGW2H18-H04-M02B			<u>↓</u>	WW	40	HCl	8	X	X	X				MSD	
SPBGW2H18-J04-M01B			<u>1148</u>	WW	40	HCl	8	X	X	X					
SPBGW2H18- <u>105</u> -M03 B-D			<u>0944</u>	WW	40	HCl	8	X	X	X					
SPBGW1H18-EB-20			<u>0800</u>	WW	40	HCl	8	X	X	X					
SPBGW2H18-TB-20			<u>↓</u>	WW	40	HCl	5	X	X						
Turnaround Time Requested (please circle): <input checked="" type="radio"/> Standard <input type="radio"/> RUSH Number of days: <u>8</u>								Special Instructions:							
Bottles Relinquished by: <u>Bottle Storage J.W.</u>		Date <u>8/13/18</u>	Time <u>1500</u>	Bottles Received by: _____						Date: _____	Time: _____				
Bottles Relinquished by: <u>J. M. Jones</u>		Date <u>8/6</u>	Time <u>1500</u>	Bottles Received by: _____						Date: _____	Time: _____				
Bottles Relinquished by: _____		Date _____	Time _____	Bottles Received by: _____						Date: _____	Time: _____				
Bottles Relinquished by: _____		Date _____	Time _____	Bottles Received by: _____						Date: <u>8/18</u>	Time: <u>1822</u>				



Lancaster
Laboratories

Analysis Request / Environmental Services Chain of Custody

1 of 1

For Eurofins Lancaster Laboratories Use Only

Group No.: 1973450 Sample Nos.: 9739846-56

Acc't: 07032 SF: 286028 SCR No.: 228432

Cooler No.: _____

Cooler Temperature upon receipt: 11 °C Container No.: 2

38985

Facility Name: Chambers Works		Project Manager: Tom McGee				Analyses Required						Comments:	
Facility Contact: Tom McGee		Facility Contact Phone No.: 856-540-2402				TCL Semivolatiles (8270D)						DKQP	
Facility Address: Chambers Works Plant		Job No.: 77201000-WH06507141											
Rt 130 & Canal Road		Release No.:											
Deepwater NJ 08023		PO Number: LBIO-67047											
Sampler(s): <u>J.Gomes, A. Treglia, B. Ammonian</u>													
Project Name: SC SPB WELL SAMPLING 2H18													
Sample Identification	Date Collected	Time Collected	Matrix	Containers			TCL Semivolatiles (8270D)	Condition upon receipt:	Intact				
				Volume (ml)	Preserv	No.							
SPBGW2H18-H05-M02B	8/6/18	1036	WW	250	None	2	X						
SPBGW2H18-I05-M03B		0944	WW	250	None	2	X						
SPBGW2H18-F05-M03B		1131	WW	250	None	2	X						
SPBGW2H18-G04-M02B		1224	WW	250	None	2	X						
SPBGW2H18-H04-M02B		1312	WW	250	None	2	X						
SPBGW2H18-H04-M02B			WW	250	None	2	X		MS				
SPBGW2H18-H04-M02B			WW	250	None	2	X		MSD				
SPBGW2H18-J04-M01B		1148	WW	250	None	2	X						
SPBGW2H18- 105 -M03 B-D		0944	WW	250	None	2	X						
SPBGW2H18-EB-20		0800	WW	250	None	2	X						
Turnaround Time Requested (please circle): <input checked="" type="radio"/> Standard <input type="radio"/> RUSH Number of days: <u>8</u>							Special Instructions:						
Bottles Relinquished by: 	Date	Time	Bottles Received by:				Date:	Time:					
Bottles Relinquished by: 	Date 8/6/18	Time 1500	Bottles Received by:				Date:	Time:					
Bottles Relinquished by: 	Date	Time	Bottles Received by:				Date:	Time:					
Bottles Relinquished by: 	Date	Time	Bottles Received by:				Date: 8-6-18	Time: 1822					

Client: Chambers Works**Delivery and Receipt Information**

Delivery Method:	<u>ELLE Courier</u>	Arrival Timestamp:	<u>08/06/2018 18:22</u>
Number of Packages:	<u>2</u>	Number of Projects:	<u>1</u>
State/Province of Origin:	<u>NJ</u>		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace \geq 6mm:	Yes
Samples Chilled:	Yes	VOA IDs (\geq 6mm):	See Below
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	<u>2</u>
Samples Intact:	Yes	Trip Blank Type:	HCl
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

VOA Vial IDs (Headspace \geq 6mm): G04-M02B, 105-M03-B-D

Unpacked by Cory Jeremiah (10469) at 19:13 on 08/06/2018

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT42-01	3.5	DT	Wet	Y	Loose	N
2	DT42-01	1.1	DT	Wet	Y	Loose	N

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	mL	milliliter(s)
C	degrees Celsius	MPN	Most Probable Number
cfu	colony forming units	N.D.	non-detect
CP Units	cobalt-chloroplatinate units	ng	nanogram(s)
F	degrees Fahrenheit	NTU	nephelometric turbidity units
g	gram(s)	pg/L	picogram/liter
IU	International Units	RL	Reporting Limit
kg	kilogram(s)	TNTC	Too Numerous To Count
L	liter(s)	µg	microgram(s)
lb.	pound(s)	µL	microliter(s)
m3	cubic meter(s)	umhos/cm	micromhos/cm
meq	milliequivalents	MCL	Maximum Contamination Limit
mg	milligram(s)		
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
P^	Concentration difference between the primary and confirmation column > 40%. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.

Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.